

GAMES



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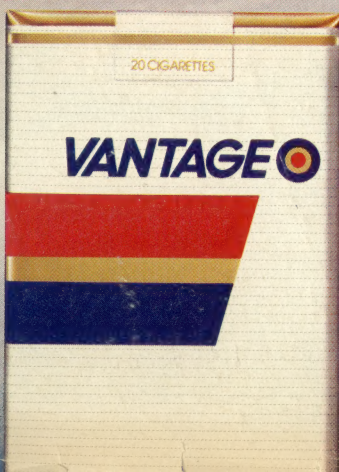
Can You
Identify
These Flowers?



Answers, Page 60

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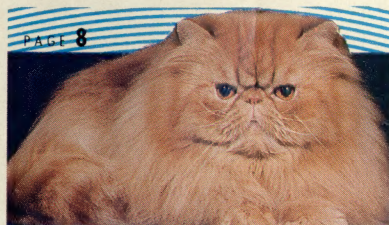
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SHORT QUIZ ★

What word, when added to the prefixes PRO-, BE-, and OB-, forms three new words?

Mike Byrne
Wayne, NJ

ORDER IN THE COURTS ★★

Three court cards and an ace are arranged in a row.

1. The heart is next to a spade.
 2. The diamond is immediately to the left of a king or a queen.
 3. The king is immediately to the right of a black card.
 4. The club is not on the end.
 5. The jack is one of the two middle cards.
 6. The king and the queen are not adjacent.
- What are the four cards?

John Marsch
Buffalo, NY

PUNCTUATION FOLK ★★

A friend recently ended a type-written letter with the following characters:

:)

When I asked her what they meant, she told me :) is a happy face on its side. Other sideways expressions are possible on a type-writer. For example, B(is a sad face with glasses. How many of these faces can you match with their descriptions?

1. ;) a. face sticking tongue out
2. : o b. hungover face
3. * (c. winking face
4. , :) d. face with a black eye
5. % (e. President Reagan
6. / :) f. Mr. Bill
7. : P g. Mr. Ed
8. : --- 8 h. Gumby

Joe Carson
Saugerties, NY

GREATER RECALL ★★★

In the Wild Card "Total Recall" (February 1986, page 57) substituting numbers for letters made RECALL + RECALL = MEMORY. If you change the code, you can reach a different conclusion.

In the multiplication problem below, each digit has been replaced by a different letter. Each letter stands for the same digit wherever it appears. Can you break the code and find the numbers?

R E C A L L

x 5

M E M O R Y

Brian Laughlin
Kentwood, MI

LETTERS FROM ROME ★★

The five names below were encoded by replacing each letter with a Roman numeral, according to the following list. Then the spaces between the numbers were removed, so that ADD would appear as IIVIV. Can you put back the spaces to decode the names and discover what category they belong to?

A = I	N = XIV
B = II	O = XV
C = III	P = XVI
D = IV	Q = XVII
E = V	R = XVIII
F = VI	S = XIX
G = VII	T = XX
H = VIII	U = XXI
I = IX	V = XXII
J = X	W = XXIII
K = XI	X = XXIV
L = XII	Y = XXV
M = XIII	Z = XXVI

1. XXIIIVXIVIXIIIV
2. XVIIIXXIXI
3. XIIIIXXIIIXIV
4. XIVIXVIXIIVXIX
5. VIIVXIVXVI

Mary Ann Herman
Brea, CA

ANSWERS, PAGE 54

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President and Publisher Jerry Calabrese

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Subscription Rate: 6 issues \$11.97, 12 issues \$21.97 in the U.S. and possessions. In Canada and other countries add \$3.00 per 6 issue subscription (U.S. funds only).

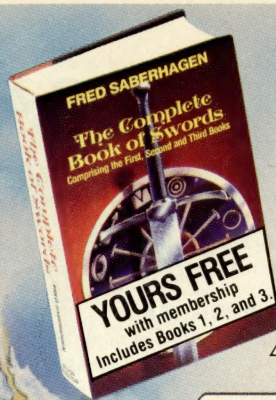
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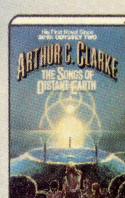
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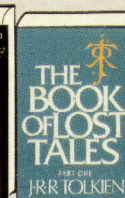
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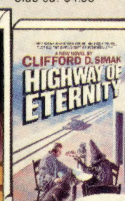
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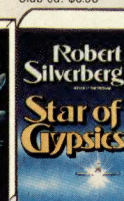
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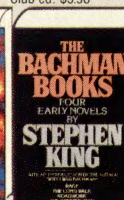
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LETTERS

OPEN CLOSED

I was eagerly awaiting the March issue of *GAMES* because, if memory serves, the Qualifying puzzle for the annual U.S. Open Crossword Championship traditionally appears in it. When my copy arrived, I found that it contained no Qualifying Puzzle and no mention of the tournament. What's going on?

Alex Vaughn
Old Lyme, CT

We're working on several new projects, including a series of GAMES special issues (the first of which will be available on newsstands June 25) and a Pencilwise Plus supplement (see announcement on page 22). Because of these plans, we'll be too busy to hold the U.S. Open this year. We hope to resume the Open in the future.

— Ed.

ALPHABET CRUNCH

In the January issue (page 35) you ran a "Letter Logic" puzzle. Each grid contained four five-letter words, every letter in each grid was used exactly twice, and the object was to complete the grids with the help of the given letters. I thought a more difficult challenge would be to construct such a puzzle using all 26 letters of the alphabet in the minimum number of grids. Using all in four grids was easy, but only through perseverance have I been able to do it in three.

Eric M. Svendsen
Ennis, Co. Clare
Ireland

Q				L
J		M		Y
Q		A		F
J				Y

V				S
B		T		H
P		O		S
V				H

K				Y
W		X		D
A		I		G
W				Y

ANSWERS, PAGE 56

LOVE, WESTERN STYLE

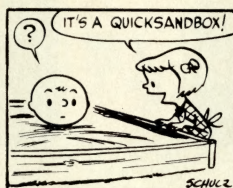
The statement that Wyatt Earp married a nice Jewish girl from San Diego in 1896 is incorrect ("Best Test of the West," April/May, page 40). She wasn't so nice for a Jewish girl: She left her home in San Francisco (not San Diego), tried to be an actress, married a Gentile (the disreputable Johnnie Behan), divorced him (but not by orthodox Jewish law), and lived with Wyatt Earp as a common-law wife. Later she claimed to have married Wyatt Earp, but no record of the marriage was ever found. My source is the book by Josephine S. M. Earp, *I Married Wyatt Earp*, published in 1976.

David Shulman
New York, NY

PAT. NOT PEND.

Although I loved your "Ingenious Inventions" (February/March, page 30), it is hardly a new idea because, as you can see, Charles Schulz beat you to it over 35 years ago!

Leslie Langhals
Owensboro, KY



FOOT IN MOUTH

In your "Puzzletown Zoo" answers (April/May), you incorrectly list "monkey" as a four-footed animal. At best, a monkey may be considered a two-footed animal, but it is more accurately described as a four-hand-ed animal because of the prehensile nature of its limbs—a minor literary distinction, but a major evolutionary one.

Nicki Cobb
Virginia Beach, VA

LEAVE IT TO BEAVER

As an alum of MIT, I enjoyed your feature on college pranks ("Madcap & Gown," page 12) in the April/May issue. However, you got one slightly wrong. The MIT school ring is a 14-karat gold beaver, nicknamed the "Brass Rat." It was this ring that was affixed to the finger of the John Harvard statue by MIT students, not Dartmouth students. You also left out the best part of the prank. As you mentioned, one of the cardinal rules of pranking is not to cause permanent damage. The ring was attached with a special glue, and a cryptogram was provided on how to remove the ring without damaging the statue. It took Harvard several months to crack the code and remove the ring!

Sue Kayton
Los Angeles, CA

LAUNDRY

If a reader finds a significant error of fact or a mistake that affects the play of a game, and we agree the slip needs to be laundered, we'll print the first or best letter and send the writer a GAMES T-shirt.

MISTAKES: APRIL/MAY

In your "Misguided Tour" (page 18), Marlon's hometown, Atlanta, is supposed to have rain on Monday. Either you drew the rain in map C a little too far south, or else Marlon is really from Macon.

Ken Stephenson
Iowa City, IA

Clue 102-Across in "Home for Dinner" (page 29) is "Jethro's sis ____ May," and the answer is ELLY. But in *The Beverly Hillbillies* Elly May was Jethro's cousin, not his sister.

Tammi Baier
Grayslake, IL

Your proofreader for "Best Test of the West" (page 40) has been on the dusty trail too long. In the "Who Was That Man?" section, #2 is Kirk Douglas as Doc Holliday, and #3 is Tyrone Power as Jesse James, but you switched the numbers in the answers.

Linda A. Campbell
Brunswick, ME

FEBRUARY/MARCH

You bowled me a googly in "Rhyme and Reason" (page 23) when you defined WICKET as "Cricket hoop." A cricket wicket consists of three upright rods close together, with two crosspieces on top.

Roberta Knoblauch
Lewisville, TX

Cryptogram #5 ("Dszquphsbnt!," page 32) refers to Mr. Hyde's alter ego as "Mr. Jekyll," even though the answer page correctly titles him "Dr."

Georgia Hiesterman
Laurel, MD

In Cryptic Crossword #2 (page 33), the clue for 28-Across is "Respected doctor tested me." I've tried to doctor the answer, ESTEEMED, into "tested me," but I keep coming up with an extra E and short one T.

Robert T. Simpson
Bethesda, MD

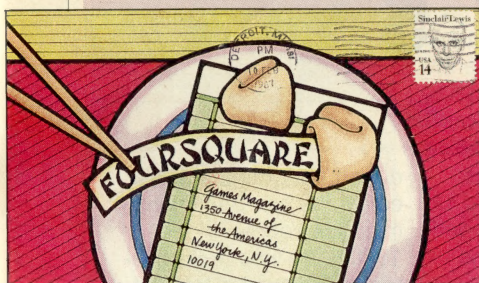
The clue for 8-Down in Cryptic Crossword #2 is "Raises votes in China?" and the answer is ERECTS, a play on "elects." But the Chinese languages do have an L-sound, as in "Lao-Tzu." It's the Japanese language that doesn't.

David Del Rocco
Honolulu, HI

The Easy Clue for 174-Across in the Ornerly Crossword (page 35) is "Obscure stuff (TOY ROSE anag.)," but that's not an anagram of the answer, ESOTERY.

Melanie Cully
Canyon, TX

ENVELOPE OF THE MONTH



Sally Milo
Detroit, MI

EVENTS

If you plan to attend any of the following events, write or call to check entry fees, dates, sites, eligibility, etc. Include a SASE with your request. If you know of other events suitable for this column, write to Events, c/o GAMES.

JUNE DAY OF THE MONTH: JUNE 1

The purpose of "National Simple Speak Day" is to encourage politicians, educators, executives, bureaucrats, journalists, lawyers, and the like to use ordinary, understandable language. Here's an example from Rudolf Flesch's *How to Write Plain English*. Don't write, as the Federal Trade Commission once did:

It is an unfair act or practice for any person to engage in any activity which has the effect of prohibiting, hindering, restricting, reducing, burdening, altering, limiting, changing, or impairing the dissemination of information pertaining to the sale or offer for sale of ophthalmic goods or services.

Instead, simply say:

It is an unfair act or practice for anyone to discourage ads for eyeglasses.

CROSSWORDS Sharpen those pencils for six rounds of puzzles by well-known constructors, June 13, at the Third Annual North Jersey Crossword Open, at the Riverside Square Mall in Hackensack. Tournament Director Stanley Newman will award a giant eraser and \$1,000 in cash prizes. Contact: B. Sirower, New Jersey Puzzlers' League, 69 Godfrey Terrace, Glen Rock, NJ 07452, or call (201) 377-9531.

FLYING DISCS A total of 260 top disc athletes from around the world will compete in the 1987 U.S. Open Flying Disc Championships, June 22-28, at La Mirada Regional Park in La Mirada, California. Events include disc golf, accuracy, maximum time aloft, distance, freestyle, and the discathon. This year, the 30th anniversary of the Frisbee disc, \$40,000 in prize money will be awarded. Entry fee is \$35 plus \$4 per event. For entry forms, contact: Discovering the World, P.O. Box 911, La Mirada, CA 90637, or call (714) 522-2202.

(CONTINUED ON PAGE 47)

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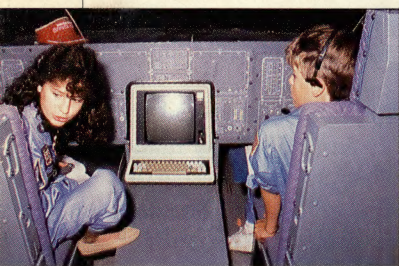
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SPACE CAMP

Kids at most summer camps get to play volleyball and Ping-Pong. Kids at U.S. Space Camp get to play astronaut. Housed next to the Space and Rocket Center Museum, in Huntsville, Alabama, Space Camp is a week-long program that gives anyone 11 years or older the chance to learn about America's space program and to participate in simulated space missions.

Modeled after NASA's astronaut training facility at the Johnson Space Center in Houston, the 70,000-square-foot Space Camp uses authentic NASA equipment, and campers perform experiments similar to those done in space by real astronauts.

To find out what it's like



The campers in the shuttle (above) and those taking a simulated space walk receive hands-on training in equipment donated by NASA.

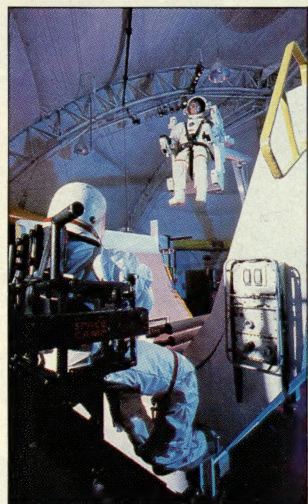
to experience the final frontier, we talked to some Space Camp graduates.

Greg (16, holding up a sil-verized aluminum pouch full of Space Camp cafeteria food): Look at this stuff. De-hydrated beef and potatoes!

Liz (12): It's not McDon-ald's, for sure.

Greg: Before we worked on the space lab, we had to learn how to use its remote arm for experiments in space.

Liz: One of our exercises



was to build a tetrahedron in water out of 12-foot-long sticks.

David (13): What we were doing was creating a satel-lite and a space station. It took teamwork. Being in the water simulated weightless-ness and made it difficult.

Liz: But the most fun was the shuttle mission aboard a full-scale spacelab module. We got to be either on the shuttle or part of ground control. Everybody reads from scripts, but problems are also tossed in. You have to figure out what to do really quick. On our mis-sion, the cargo door got stuck and we had to go out and close it manually.

David: When you go out of the shuttle during a mission, you wear a space suit and ride on simulators that imi-tate weightlessness.

Greg: Mission control is also exactly reproduced, with plenty of buttons, clocks, and video monitors.

Chris (12): At a debriefing after a mission we discuss how problems should have been handled.

Jill (14): On one landing, our pilot missed the strip by eight miles. Not too good.

David: Having problems is part of the fun. It taught you a lot, too.

Space Camp runs from March to September, and has programs for three age groups: 11-13, 14-16, and 17-19. Adults can enter a special three-day session held from September to No-vember. Prices for these programs range from \$525 to \$700.

Aspiring astronauts should write to U.S. Space Camp, The Space and Rocket Center, One Tran-quility Base, Huntsville, AL 35807; or phone, 1-800-633-7280.

—Marshal M. Rosenthal

SMALL WONDERS

If you can't resist hitting a golf ball past spinning wind-mill blades and revolving statuary, join the club. The granddad of silly sports, miniature golf is still one of the most popular ways de-vised by man to kill a few hours.

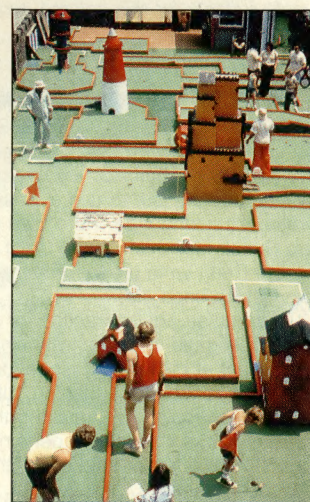
Now mini-golf's mini-history is chronicled in *Mini-ature Golf* (Abbeville Press, \$17.95). Authors Nina Gar-finkel and Maria Reidelbach begin their story in 1916, when James Barber of Pine-hurst, North Carolina, laid



Fantasy architecture (above and right) is par for the mini-golf course.

out on the grounds of his estate the first documented mini-golf course. In the 1920s pee-wee golf's pio-neers discovered that cot-tonseed hulls made the best putting surface—and that the proper ambiance for a mini-golf course should be more Coney Island than country club.

By 1930, the game had reached its zenith, with be-tween 25,000 and 50,000 courses dotting America.



Many of the courses were as elaborate as the Cal-iente, in Los Angeles, which enticed customers with a pool, sunken gar-dens, and a natural geyser.

But within several years the game was defunct, done in by overexpansion. Happily, the 1950s saw a rebirth in mini-golf, and to-day the game, called "an indigenous American art form," seems as though it will remain an oddball fix-ture on the landscape.

It isn't scholarship, how-ever, that makes this book a hole-in-one for putt-putt lovers—it's the photos of goofy hazards and fantasy courses. Leaf through *Mini-ature Golf* and you can al-most feel the summer heat rising from the artificial turf of the putting green. —C.S.



TOP CAT

They're the cat's meow. Last winter, more than 500 felines competed for best of show at the 1987 International Cat Show, held in New York City's Madison Square Garden.

Sitting in the catbird seat at the show's end was grand prize winner Rambo's I.O.U., a red Persian male cat. Exceptional as he was, Rambo was far from the most unusual breed on display. Catnapping in rows of cages were enormous, docile rag dolls, Scottish fold kittens, curly-haired Rexes, and Abyssinians, which resemble mountain lions.

Then there were Maine Coons, large long-hairs with tufts of fur in their ears and between their toes. "No one knows for sure where they come from," said one Maine coon breeder, "but one theory is that they came over with the Vikings and then lived in the wild."



The Sphynx (top) looks mysterious, but the Persian (bottom) looked like a winner to the judges.

Newer breeds included the Sphynx, which has no hair at all, and the California Spangled Cat. This spotted variety was developed by Hollywood scriptwriter Paul Casey, who spent 15 years and \$200,000 to do it.

California Spangles are not yet recognized by The International Cat Association, but TICA judges have enough to do evaluating the 36 officially accepted breeds.

At the Cat Show, judges had about two minutes to take a cat from its cage, set it on a table, look at its comportment and markings, feel its bone structure, assign it a grade, put it back in the cage, spray the table for odors and germs, and go on to the next cat.

As for the owners, they seemed nearly as finicky as their pets, particularly toward spectators. Most cages wore signs that simply said "Do not touch the cat." But others were more direct: "If you're curious about life after death, touch my cat and find out." And there was the occasional poetic warning: "Roses are red/Dresses have lace/If you touch the cat/I'll rip off your face." —Minda Zetlin

UNDER THE LITTLE TOP

Vanessa Prater has ring around the collar. And around the arms and waist. Prater is a Hula Hoop twirler for The Big Apple Circus, which this year celebrates its tenth anniversary.

The Big Apple is, in fact, small—a one-ring, intimate, European-style circus. Since the Big Apple lacks the resources of the truly big tops, its founder and ringmaster, Paul Binder, demands that his troupe be jacks-of-all-trades. So much so that at intermission, performers sell candy and popcorn to the customers.

But no member of the circus is more versatile than 30-year-old Vanessa Prater.

DOWN IN THE DUMPS



This picturesque garbage was the winner of the World's Most Scenic Dump contest, sponsored by the Moab, Utah Chamber of Commerce. Photographed by Frank Byrt, the site is Kodiak, located on the tip of Kodiak Island, Alaska. The entries, 16 in all, were judged by Ed Mayo, president of the Kennebunkport Dump Association, York County, Maine, and a self-professed "expert in dumpology." His criteria for a good dump include adequate trash mix, sustenance for wildlife, and secluded location. What makes Kodiak special to Mayo? "It had balance; the pile was consistent and was harmonious with the background scene."

An eight-year veteran of the circus, she has trained dogs, ridden elephants, and performs as an aerialist.

Recently, she added a new skill to her repertoire: Hula Hoop twirling. To become lord, or in this case, lady of the rings, Prater hunted up a videotape of a female Hula Hoop champ, and learned from it that the hoops all spun in the same direction. Prater also discovered that regular Hula Hoops were too small for her; so while on tour, she headed for the nearest plumbing supply store. "Here I was in a little town in Illinois, asking the guy at the counter for 100 feet of black plumbing hose. He looked at me like I was nuts," laughs Prater. Cutting the hose into suitable lengths and taping the ends did the trick.

But Prater found that twirling could be hazardous to one's health. "My neck got sore, I scarred my hands, and busted my lip," she recalls.

Her father, a homicide



Vanessa Prater takes her hoops out for an evening spin.

detective, is still waiting for her "circus phase" to end. But it's not likely anytime soon.

While the Big Apple's home is Lincoln Center in New York City, it does hit the road. This summer, it will play cities on the East Coast from Portland, Maine, to Washington, D.C. Don't miss the Big Apple and its talented ringleader.

—Mark Danna

Grand Prize:
Silver reading shears
from Tiffany
5 Runner-Up Prizes
A GAMES T-shirt

SHEAR WIT!

MESSAGES WITH A CUTTING EDGE

The pen may be mightier than the sword, but in this contest the penknife is mightier still. By cutting a single image—from a magazine, newspaper, or any other source—into an appropriate shape you can combine the ideas of both the image and shape to create a pithy, wordless message. For instance, the three shown below suggest the opinion that modern art is incomprehensible (a modern art reproduction in the shape of a question mark), the belief that used cars are often lemons (used car newspaper ads cut in the shape of a lemon), and the phrase "The Big Apple" (a picture of an apple in the shape

of the New York City skyline). And so, if you fancy yourself a cut-up, grab some paper and get started.

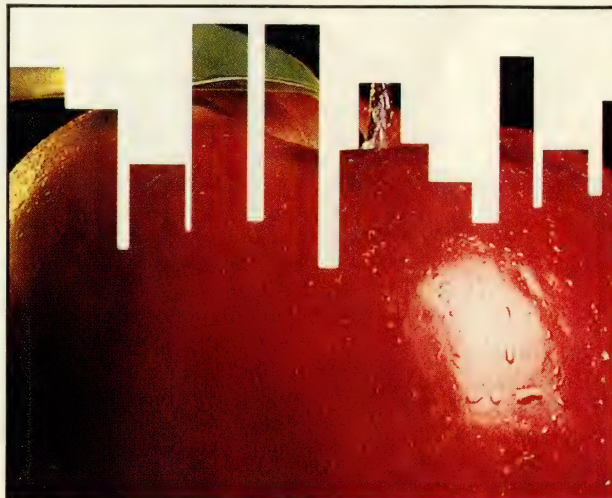
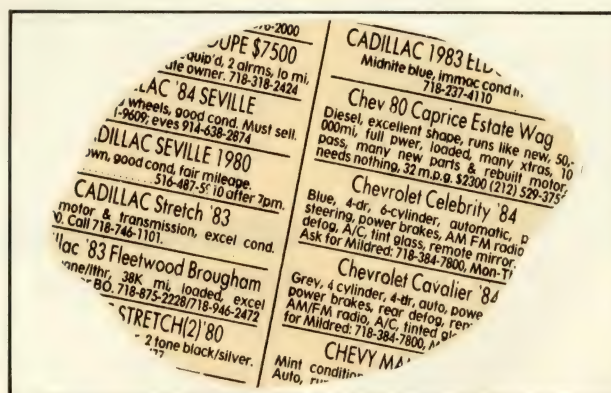
How to Enter You may use any type of material: newspapers, magazines, maps, dental charts, etc. To insure that your handiwork is not damaged in mailing, we suggest you mount your entry or entries on flat, sturdy backing, such as cardboard or oaktag. Multiple entries may be mailed in one envelope, but

your name and address must appear on each entry. You do not have to send an explanation of your work.

Winning Entries will be judged on originality, humor, and appropriateness. Artistic ability (or, in this case, deftness with scissors or knife) is not essential, but a neat presentation will help us in judging your entry. All submissions become the property of GAMES. The decision of the judges, as always, is final.

—R. L.

Mail entries to: Shear Wit, GAMES, 1350 Avenue of the Americas, New York, NY 10019. Entries must be received by August 3, 1987.



The Impossible Became Possible ...

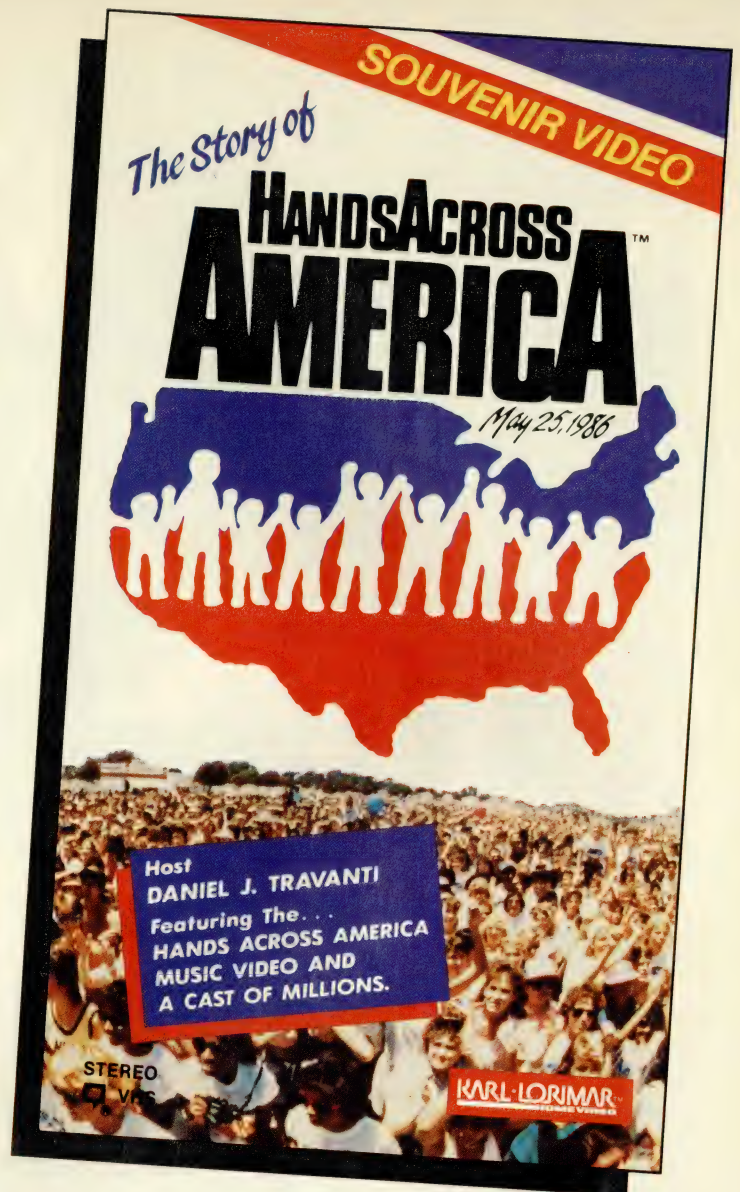
On May 25, 1986 six and a half million Americans joined hands in an unprecedented demonstration of the American spirit to call attention to the plight of the hungry and homeless in America.

To mark the one year anniversary, Hands Across America is pleased to offer a special 30 minutes commemorative videocassette, "The Story of Hands Across America." This video captures the excitement and scope of the event with footage from across the country, set to the music of Kenny Rogers, Lionel Richie and many others.

Most importantly, "The Story of Hands Across America" is a tribute to the American people, especially to those who had the imagination, determination and good will to take the impossible and make it happen.

Keep the memory forever!

**AVAILABLE WHEREVER
VIDEOCASSETTES ARE SOLD!**



EXCLUSIVELY DISTRIBUTED BY KARL LORIMAR HOME VIDEO.
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© 1986 USA for Africa d/b/a Hands Across America. All Rights Reserved.

Photography: Tony Haig

Or... to order by mail, please complete this form and return it along with your check, money order or credit card information to:

HANDS ACROSS AMERICA
7707 AMERICAN AVENUE
MARSHFIELD, WI 54472



Name: _____
Address: _____
City/State/Zip: _____
Phone #: (____) _____

Videocassettes: VHS _____ Beta _____ @ \$14.95 ea. = \$ _____

Shipping + handling: Add \$2.50 for first cassette,
50¢ for each additional cassette. = \$ _____

ORDER 5 OR MORE, SHIPPING + HANDLING FREE.

Wisconsin residents add 5% Sales tax = \$ _____

I want to make an additional donation to
HANDS ACROSS AMERICA Fill in amount = \$ _____

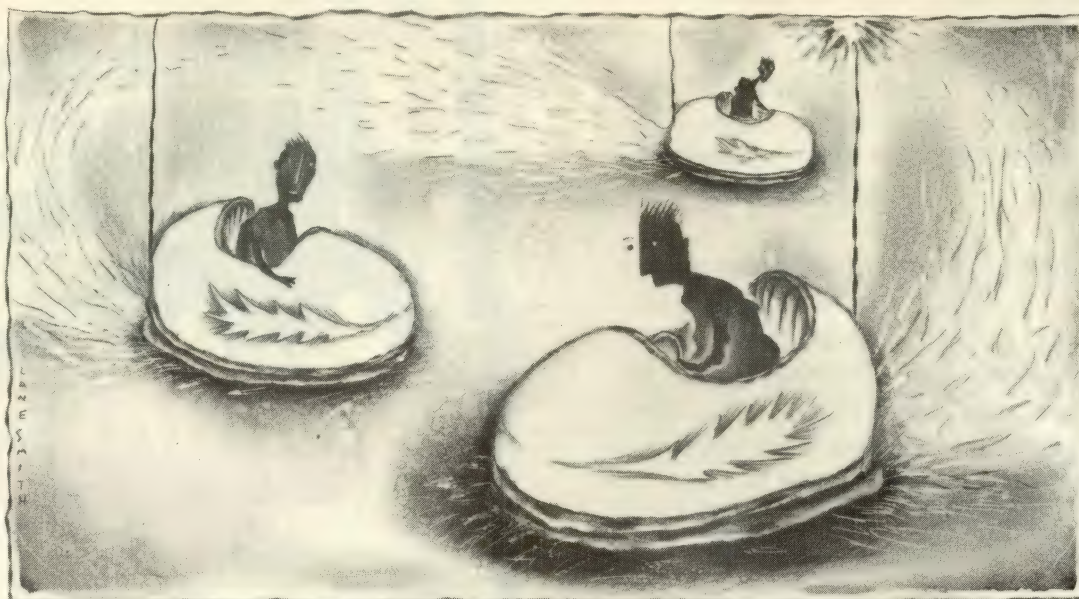
Q0152 TOTAL = \$ _____

Method of Payment: ☐ Check Enclosed ☐ Money Order Enclosed
or Charge my Credit Card: ☐ Visa ☐ Mastercard

Print cardholders name: _____

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Bemusement Park

The role of the funfair in shaping the human psyche has been explored by Viennese analyst Hirn Kopfcake in his seminal treatise, "The Role of the Funfair in Shaping the Human Psyche." He writes, "Amusement parks make revealing psychological laboratories. On a subconscious level, people are driven to them to test their courage, competitiveness, and skill. I'd love to take my own patients to amusement parks to observe their reactions to rides and concessions. Unfortunately, I can't. I have severe phobic reactions to height, speed, and dark rooms where things jump out at you and go Oodle-Oodle-Oodle!"

Whatever you think of Dr. Kopfcake's observations (and frankly, we're not all that impressed), you may see some puzzling behavior at amusement parks. Here are a few examples.

COURAGE ★

Charles, George, and Henry are 12-year-olds who like to think of themselves as tough guys. They insist on being called (not necessarily respectfully) "Biff," "Butch," and "Meat." The instant they arrived at the funfair, Butch dared the others to try the scariest-looking rides: the Zipper, the Galaxy, and the Matterhorn.

As it turned out, only two members of the trio felt like continuing after the Zipper, and only one boy rode the Matter-

horn. George took more rides than Butch, and Charles (who hadn't especially wanted to ride anything) rode more than Meat.

Knowing all this, can you match each boy to his nickname, and tell who took which rides?

COMPETITIVENESS ★★

Celeste, Lisa, Nathaniel, and Sam are cousins whose last names are (in no particular order) Adams, Grier, Jones, and Randall.

The high point of their trip to the funfair came when the four cousins leaped into bumper cars colored mauve, chartreuse, turquoise, and magenta, and had a free-for-all.

Based on the following information—which lists the cousins' collisions in order and completely—can you tell each person's full name and the color of his or her car?

1. The cousin in the chartreuse car triggered the action by bumping Jones.
2. Jones spun his car around and bumped her back.
3. Grier bumped Nathaniel.
4. Nathaniel bumped Adams.
5. In an obvious act of revenge, Lisa bumped the magenta car head-on.
6. A split-second later, Jones rammed the magenta car from the side.
7. Adams bumped the mauve car.
8. The cousin in the mauve car bumped both Sam and Randall.

9. The magenta car was about to bump Adams when the bell signalled the end of the round.

SKILL ★★★

Alf, Ben, Cara, Donna, and Ed each went off to a different concession to see how many prizes they could win. The games they chose were Dart Throw, Knock 'Em Down, Milk Toss, Ring 'Em, and Shoot the Hoop. When they reconvened later, each of them had garnered five prizes. Altogether, they now toted five stuffed lions, five statues of Mae West, five plastic baseball bats, five kazoes, and five wooden nickels.

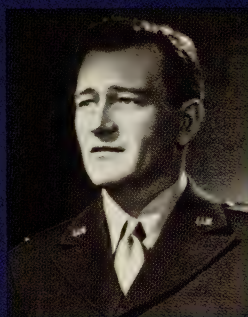
From the clues below, can you identify the game each person played, and how many of each kind of prize he or she won?

1. Alf was the only one who won one prize of each kind.
2. Donna and the Ring 'Em player each won two wooden nickels.
3. Ben and the Dart Throw player won, between them, every kind of prize—but no kind was won by both.
4. Ed and the Knock 'Em Down player won identical sets of prizes.
5. The Milk Toss player, having more than one bat, gave one to Ben, who was the only person not to have won one. Ben offered one of his stuffed lions in exchange, but it was declined.

ANSWERS, PAGE 57

LANE SMITH

JOHN WAYNE



AMERICAN

The Wayne family authorizes a classic—
to honor the man and the country he loved



Richly grained hardwood wall rack is fitted with solid brass pistol mounts and enameled insignia of all five American military services. Shown smaller than actual size of 14-1/4" x 12-9/16."

HE WAS ONE OF A KIND.

Loved and respected around the world as the symbol of America at its very best.

In more than 150 films, from *Sands of Iwo Jima* to *The Green Berets* to *The Longest Day*, he captured our essence. Our strength. Our values. Our deep sense of purpose.

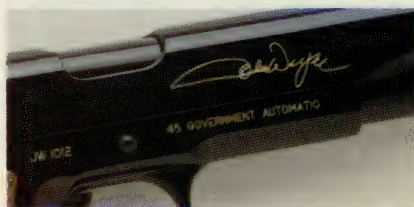
In 1979, he became one of the few Americans ever to be awarded a Congressional Gold Medal for service to the nation.

And now, to mark the 60th anniversary of his first film role, John Wayne's family has authorized a dramatic *new* tribute. A precisely detailed re-creation of the .45-caliber automatic pistol he carried in all those great military films.

It's distinctive, satisfying and *absolutely safe*: In the tradition of the very finest imported display replicas, it allows neither the chambering nor firing of ammunition.

And it, too, is one of a kind. To be forever distinguished by your personal serial number.

Celebrate the legend. Enter your order by July 31st.



Your replica will bear both John Wayne's signature and your own personalized 'JW' serial number.

ORDER FORM

© 1987 FM

JOHN WAYNE'S .45

Please mail by July 31, 1987

The Franklin Mint
Franklin Center, Pennsylvania 19091

Please enter my order for The John Wayne Armed Forces Commemorative .45.

I need send no payment now. I will be notified when my signed, serially numbered, non-firing re-creation is ready and will be billed at that time for my deposit of \$79.* I will then be invoiced for the balance, after shipment, in four equal monthly installments of \$79.* each.

*Plus my state sales tax.

Signature _____
ALL ORDERS ARE SUBJECT TO ACCEPTANCE.

Name _____
PLEASE PRINT CLEARLY

Address _____

City, State, Zip _____

Please allow 4 to 6 weeks from date shown above for shipment.
"John Wayne" is a trademark of Wayne Enterprises used under license.

ROADS SCHOOL

I DON'T CARE ABOUT YOUR damn road rally, you can't walk down these train tracks. This here is private property."

The policeman stood his ground. He saw it as his duty this Halloween night to protect the railroad from an invasion of pirates, clowns, and witches who had driven to this spot on a desolate country road looking for a clue taped to a railroad tie.

If we didn't find it, we were sunk. My sister Peggy, defiant in her punk costume, started to walk past the cop.

"Hold it," the cop ordered. "There ain't nothin' down there anyway. I threw that piece of paper away."

"Why did you do that?" she shrieked. "What was it?"

"A drawing of a snake," he said.

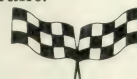
A few minutes later down the road, as we worked on the clue for our next destination, a car pulled up. A harem girl leaned out the window and begged, "The cop back there said he

traveling from one destination to the next as difficult as driving blindfolded at rush hour, in amateur rallies the emphasis is on fun. Token cash prizes are awarded out of entry fees, or the proceeds are donated to charity.

More is at stake in the road rallies sanctioned by the Sports Car Club of America (see box, page 17). Mentally as well as physically challenging, these events have been described by participants as "chess games on wheels." They require precision driving, expert navigation, logic, whimsy, a knowledge of math, and painstaking analysis of highly technical rules and instructions. Ralliers compete in local and national events for trophies and sponsor money.

As a resident of the Motor City, where life can be described as one big road rally, and an inveterate games player, I decided to take up the SCCA challenge. But before hitting the road, it seemed like a good idea to start in

first gear—with a gimmick road rally, which often resembles a hi-octane treasure hunt.



PROCEED TO INFANT WIENER

Last summer, on a warm evening in a Detroit suburb, my wife and I and two friends showed up at a school parking lot for a road rally organized by friends. Before the race began, we were joined by more than 20 other cars, mostly filled with yuppies in their 30s and 40s. As instructed, we had brought along specified maps and phone books, a dictionary, a flashlight, a cassette player, scissors and tape, pencils and paper.

The object of the game was to reach 11 destinations as quickly as possible. Clues to destinations were in envelopes that could be opened on any of their four sides. Which side to open was determined at each location by answering the question on the instruction sheet. Opening the wrong side cost you points.

The first envelope contained a cassette that played theme songs to old TV shows. The correct show titles, placed in a double-croctic, provided the clue: "Clark's." With the aid of the phone book, we determined that the destination was Clark's TV Repair Shop—but not until we had wasted precious time traveling to a couple of Clark gas stations.

The next envelope was another disaster. It contained a logic puzzle whose correct answer directed us to search for a place called The Corn Popper. Unable to find the store in the phone book listings, I looked for a store with a similar name, The Popcorn Works. After a 10-mile drive and a frantic search, we found that The Popcorn Works was closed. To my embarrassment, a more careful perusal of the phone book turned up a listing for The Corn Popper.

Hopelessly behind, we arrived at The Corn Popper to get our designated bag of popcorn. The question sheet asked us to identify the flavor. We each took a nibble and gagged. It was watermelon.

Having spent more than an hour of the three-hour time limit on the first

PHOTOGRAPHS BY BOB BUONITA

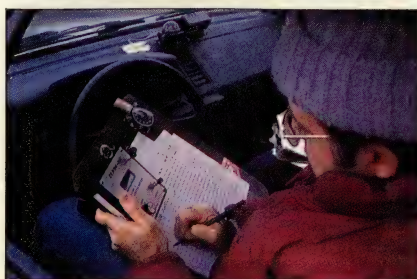
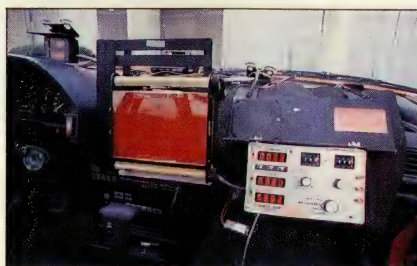
Mentally as well as physically challenging, road rallies have been described by participants as "chess games on wheels."

threw away the clue. Do you know what it was?"

I shook my head no, rolled up the window, and floored it. No sense helping the enemy.

As long as there have been cars, people have been playing games with them. Most car competitions place a premium on speed, whether it be drag racing down country roads or the Indy 500. But there is an auto event that tickles the brain and downplays the lead foot: road rallying.

Road rallies come in a variety of forms, from semi-professional races to informal amateur rallies that rely heavily on gimmicks. These gimmicks are limited only by the imaginations of the organizers, and almost any method of tricking the driver is fair game, including the use of puzzles, logic traps, map teasers, music, word games, and complicated routes. Though a good rally tries to make



(Top) Ralliers in Class A cars use computers. (Bottom) Class B drivers employ digital chronometers and odometers.

LAR

*In road rally competitions, it's not how fast you drive,
it's how fast you think.*

by MICHAEL BETZOLD

two destinations, all the time yelling and arguing and racking our brains, we realized we were out of the running. With the pressure off we could enjoy making fools of ourselves in public. At a mall, we didn't mind stares from shoppers as we scurried from restaurant to restaurant to get menu prices of egg rolls, burritos, ice cream, and other items, so we could add them up and match the correct number to the next envelope. At a fast-food restaurant, we ignored the gasps from McNuggets eaters when we climbed onto a table to get the brand name of a ceiling fan.

We figured out that the instruction "Drive and drive until you arrive where you can drive" meant to look for a golf driving range. Another envelope contained a baby bottle with a small hot dog inside it, and the four of us played word association for less than a minute before figuring out that the destination was Frank's Nursery.

As the clock ran out, we opened the last envelope. The clue said only "Picture where you're going next." I recalled that rally organizers had taken a Polaroid of me when I entered a bookstore on a previous stop. So I pulled out the photo and spotted on a bulletin board behind me an advertisement for a local restaurant. We sped to the eatery, where the post-rally party was in full swing.

As it turned out, many of our competitors had skipped some stops or blown some answers, and a few had given up and opened the "panic envelope," which gave away the final destination at the price of a big penalty. When the points were totaled, we ended up eighth—not bad for rookies. And even better, the post-game meal was pizza, not watermelon popcorn.



TOMBSTONE TERRITORY

While no one knows how many amateur road rallies take place every year, perhaps the most popular night to hold one is Halloween. Several years ago, the Chicago chapter of the American Society of Electrical Engineers sponsored a doozy. One stop was a room in an empty farmhouse that contained an open casket. Unin-

structed, ralliers had to figure out they were supposed to climb into the casket and shut the lid. The closing of the lid triggered a recording that provided the next instructions.

The Halloween rally I participated in last October was not as sophisticated, but nearly as ghoulish. It started on a rainy night in the Detroit area when 19 costumed drivers assembled in a backyard, each carrying, as in-

shoe stores. Finally, we spotted a woman wearing one red shoe. She gave us a cassette.

The tape directed us to the St. Clair Shores Sportmen's Club, located off an eerie rural dirt road. Already, ralliers with flashlights were searching the building and grounds in the pouring rain. At each location, the organizers had hidden a sign bearing a cartoon that matched a cartoon on a

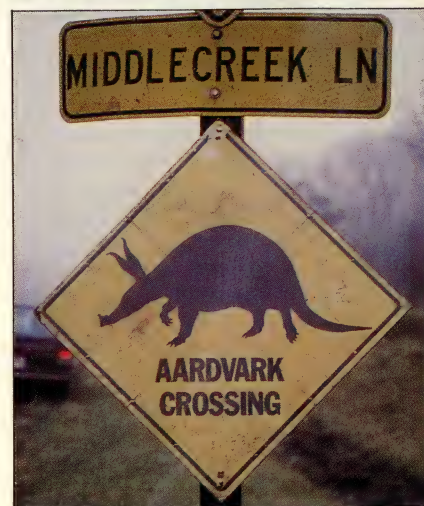
At one Halloween rally, ralliers had to climb into an open casket and shut the lid. The closing of the lid triggered a recording that provided the next instructions.



structed, their car keys and a raw egg. In the gloom, a priestlike figure stood beside an open "grave," while his assistant collected the keys and eggs and tossed them into a mass of cooked macaroni that nearly filled the pit. The priest shouted "Go!" and the drivers dove into the gruesome omelette to retrieve them. I made only one swipe, but when someone plucked out a clump of keys, I spotted mine, grabbed them, ran back into the house and out the front door, where I was handed the instructions and envelopes.

The first puzzle, a cryptogram, was a cinch to decipher; decoded, it told of "an old woman who wore one red shoe" who "was last seen window-shopping" at a nearby shopping center. "She has your next clue."

My team sped to the shopping center and joined other ralliers checking



(Top) When drivers reach hidden check-points, officials note the time. (Bottom) The aardvark sign was an example of Prairie Grass trickery.

clue envelope; inside was the clue to the next destination. Some envelopes were dummies, and ralliers were penalized for opening them. At the Sportmen's Club, a cartoon was taped to the underside of the roof's overhang.

Inside the matching envelope were 16 segments of a message. Pasting them together in the right order revealed cryptic instructions: We were directed to a railroad crossing a few miles away, where the uncooperative cop was waiting.

At the crossing, the snake clue eventually directed us to a cemetery

Kim offered to put me behind the wheel of his new Mustang, while Kamo teamed up with veteran driver Ed Davis.

"We'll just do our best and have a good time," Kim told me as we attached a clipboard holding the route instructions to the dash. That sounded reasonable to me. Despite my diligent study of the SCCA's hefty regulations manual, I was not at all sure what was about to transpire. The thick fog clinging to the brown fields and gray roads mirrored my mental state.

At a get-together for ralliers the night before, rally master Pete Matus-

less image-conscious wore scruffy blue jeans and flannel shirts. Though some ralliers are sports car buffs, the cars they compete in are often their everyday vehicles. Perennial champion Bob Radford, of Conifer, Colorado, a retired newspaper editor, spends 40 weekends a year rallying. According to him, the best rally vehicles are "docile cars that are not fussy about performance."

Kim and I, in car 46, were issued our route instructions at 9:06 AM, and headed north on highway 25. The easy first leg, primarily an odometer check, gave us time to talk.

Kim, 33, an electrical engineer from Palatine, Illinois, started out seven years ago competing in local rallies that attract scores of novices in dozens of cities across the country. In 1985 he won Rookie of the Year honors on the SCCA's national circuit, where about 60 semi-professionals compete. The SCCA awards no cash prizes, but several manufacturers, including Toyota, Mazda, and Chrysler, give small amounts of money to winners who use their products. Kim said his winnings in 1986 would barely cover his expenses.

For the next seven hours our task allowed little time for idle chatter, as we played a game whose "board" covered 125 miles of rural country northwest of Chicago. Minutes were spent continuously calibrating the time elapsed and distance traveled, reworking the equation "time multiplied by speed equals distance" (TSD). It took practice to maintain a uniform speed, especially when both the route and the speed frequently changed.

Competing in Class C, Kim had to do the math with paper and pencil and a set of printed speed tables. (Not all cars give identical odometer readings. For example, the official mileage given for a particular leg may be 3 miles, but our odometer may register that distance as 2.9 miles, fouling our calculations. The speed tables adjust this difference between official mileage and our odometer readings.) In Class A, in-car computers handle all the calculations at the flick of a switch, enabling the best rally teams to complete some legs with perfect scores (the best score is 0; in Class C, anything under 10 is great). Class B teams use either an odometer accurate to hundredths of a mile or a calculator. Clocks and stopwatches are allowed in all classes, as long as they can't be varied in rate.

Even trickier than staying on time is staying on course. Rally masters devise ingenious traps to send ralliers

For the next seven hours we had little time for idle chatter, as we played a game whose "board" covered 125 miles of rural country northwest of Chicago.

we never did find. We had to phone the "panic number" (and incur a 15-point penalty) to find our next destination. Dejected, wet, and again hopelessly behind, we quit for good several stops later, after spending about 20 minutes tramping through another cemetery, looking in vain for a cartoon on every tombstone, tree, or fence post.

In this rally, the clues were easy, but the hunting was hard. Still, we missed some fun by dropping out, especially at the next-to-last stop—a tavern where ralliers had to drink a "Bloody Brain" before the bartender would give them the clue to the location of the rally-ending party. A Bloody Brain is a combination of Peppermint Schnapps and Bailey's Irish Cream, a mixture that congeals into something that looks like a brain in a jar of formaldehyde. On second thought, I'm just as glad we missed it.



CAUTION: AARDVARK CROSSING
After two sorry performances at the gimmick rallies, I didn't feel ready for prime time. But I couldn't refuse an offer from road-rally ace Kim Joiner to be his driver in the Prairie Grass road rally in Elgin, Illinois, held in late November. There are 22 SCCA road rallies each year that determine the national championship, and this was the last stop on the circuit.

Since Kim and his usual partner, Richard Kamo, had already sewn up the 1986 SCCA Class C championship,



Driver's license: Road ralliers are both extremely competitive and eager to spread the word about their sport.

zak described SCCA rallying as "a kid's game adults play with cars." Well, no game I know asks kids to follow deliberately confusing instructions while traveling at designated legal speeds that change frequently, and to arrive at checkpoints—whose locations are unknown—at exact times. Penalties for being late or early are assessed at the rate of one point for every one-hundredth of a minute.

In the parking lot that dank morning, ralliers, nearly a quarter of them women, checked their machines and prepared to do battle. Ranging in age from about 25 to 60, many were decked out in flamboyant scarves and rally jackets, as if ready to get behind the wheel in a Grand Prix event; the

on wild goose chases. These traps often exploit the fact that, while rally rules are unambiguous, knowing how to apply them to the real world isn't always clear-cut. Early on, for example, the instructions told us to "TURN AT SECOND OPPORTUNITY ONTO McCORNACK." The next three intersections were Prairie Lane, McCornack, and McCornack again. Kim correctly decided the instruction meant to turn at the first McCornack. Those who turned at the second McCornack ended up on an off-course loop that took them to the next checkpoint more than two minutes later, earning them 200 points, the worst possible score.

Despite these loops, people still get lost. It happened to us on the third leg. At an intersection, we found ourselves behind a Toyota truck that held Bob Radford and John Classen, the top rally team in the nation. When they turned right, we blindly followed, and soon lost them in the fog. A half-hour—and many miles—later we finally found our way back to the course and the checkpoint.

At each checkpoint is a written "critique" that explains the trap on the leg just completed. We found out that the first five route instructions on the third leg all should have been executed immediately at the triangular intersection. Such traps are possible because most route instructions say such things as "LEFT AT T" or "TURN ONTO SMITH," but not how far you have to travel before arriving at "T" or "Smith." It can be several feet or several miles.

Some rallies have "sweat legs" that test your convictions. After completing a complex set of instructions, drivers may have to go 20 or 30 miles before executing the next instruction—time enough to grow anxious about whether they should have taken a different route.

For ralliers, many instructions are puzzles that must be solved at top mental speed. For example, instructed to "TURN LEFT AFTER A RED-GATE," we passed a farm that had a fence with a red gate. But landmarks must be defined in the instructions or designated with a sign, so we pressed on until we found a street named "Redgate."

Rally masters aren't above putting up their own road signs. Instructed to pause 60 seconds at "ARLVARK," we passed a large warning sign by the side of the road that read "AARDVARK CROSSING." The sign is an annual piece of Prairie Grass tomfoolery. Kim noted the discrepancy in

spellings so we didn't pause and didn't lose any time.

Before the rally, Matuszak told me that "I like to make contestants feel there's an obvious trap coming and then hit them with something else." I should have kept that in mind. As we set out on the aardvark leg, we read this instruction: "LEAVE THIS POINT AT THE OUTTIME ASSIGNED AT CONTROL." We, and most everyone else, turned our odometers to zero and began timing from the starting point of the leg. But a few minutes later we ran into another sign on the road that read "THIS POINT 4.81 O.M." (Official Mileage). We were so busy congratulating our-



RALLY 'ROUND THE SCCA FLAG

The Sports Car Club of America, 35,000 members strong, does more than just sponsor the (TSD) Road Rally circuit. It also runs the Pro Rally circuit, of which the most rigorous event is the Press On Regardless, 300 miles of hell-bent dashes, mostly at night, down logging roads deep in the woods of northern Michigan. Pro rallies are races that don't use tricky instructions, but alternate on-road legs, in which drivers go the speed limit, with speed legs on roads closed to the public.

The SCCA also runs programs in amateur road racing, trans-am pro racing, and Solo I (timed competitions by race cars on tracks) and Solo II (street cars racing in parking lots around courses marked by pylons).

The SCCA (TSD) Road Rally championship is composed of 12 national and 10 divisional races. Nationals are longer races (200 or more miles) and supposedly more difficult. In addition to the national crown, each of seven geographical divisions of the SCCA has divisional championships for people who just race in that category.

There are about 90 regions in the SCCA that run regional rally programs, which include rallies for novices. Moreover, most major cities have one or more rally clubs, independent of the SCCA, that conduct rallies; many of these programs are co-sponsored by the SCCA.

To get more information about SCCA rallying, contact Sports Car Club of America, Inc., 7300 South Alton Way, Englewood, CO 80112, or call (303) 694-7222. —M. B.

selves for figuring out the aardvark trap, we didn't realize we had fallen into another trap. The mileage sign, not the starting point, was the "this point" referred to in the previous instruction. We had begun timing the leg 4.81 miles too early, and cost ourselves valuable points.

On the next leg, I spotted the trap right away. The instruction said to divide our average speed "by one-half." Our designated speed at that point was 25 m.p.h., and I realized we should change it to 50, not to 12 1/2 (which would have meant dividing our speed by two). Besides not cracking up Kim's car, this was my significant contribution to the day.

The trap on the next leg was designed to snare the experts. We passed a car with a sign attached to it that said "OBS," meaning, apparently, "observer car." Each rally must provide an observer car to monitor entrants' on-road behavior. Kim knew that the OBS constituted a "control," and the presence of a control negated any upcoming instruction—in this case, to turn right on Water Road. However, the OBS sign was attached to the car, and the rules state that no sign attached to a car counts as a sign. Thus, it wasn't a control, and we should have turned right.

Knowledge of the rule books is essential. Approaching a railroad crossing on the next leg, Kim said "I see a trap." Our instruction told us to "TURN LEFT AT BLINKER." Kim remembered that a railroad crossing signal was defined as a blinker. We turned and didn't end up driving wasted miles to the next blinker.

Thanks to Kim's other hobby, we dodged yet another bullet. Instructed to turn at "Golf Course," Kim spotted a nearly hidden sign designating a golf course. Fortunately for us, Kim had played that course, but many others hadn't, and they ended up missing the sign and mistakenly turning on Golf Course Road.

Despite avoiding some traps, we were pessimistic about our chances for winning when we arrived at the finish line banquet hall, where a meal and a season-ending awards ceremony awaited. But it had been a rough day for a lot of people. When the scores were finally posted, we found we'd finished second out of 20 Class C cars, behind only Kamo and Davis. I got a handsome plaque. But better than that, it had been a gas.

Michael Betzold is a freelance writer living in Detroit whose last article for GAMES was on shadow baseball. He claims he has never once gotten lost driving home from work.

WE INTERRUPT
THESE PROGRAMS
TO BRING YOU ...

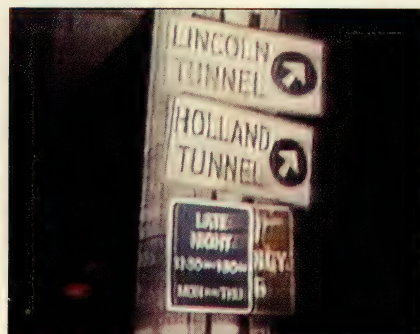
PENNING

The television landscapes on these pages appear during the opening credits of 17 current and classic TV programs. What shows are introduced by these fleeting images on your television screen?

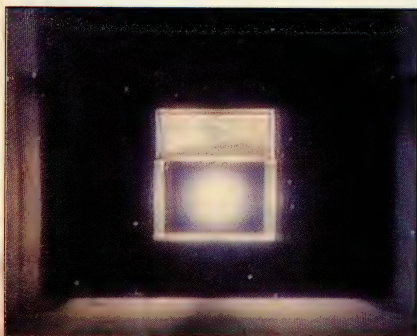
ANSWERS, PAGE 57



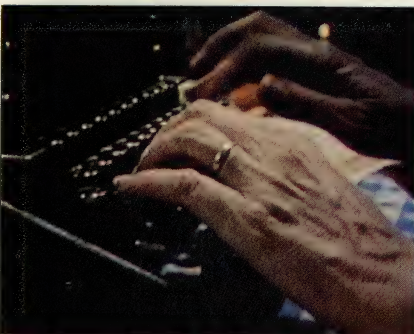
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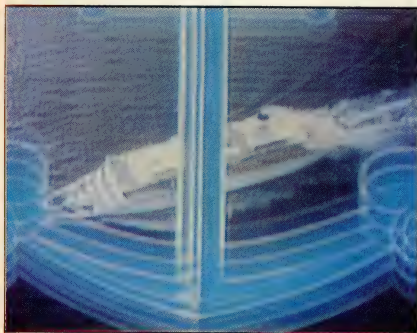
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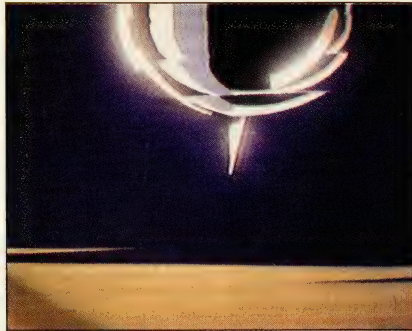
SHOTS II



PHOTOGRAPHS BY
KEITH GLASGOW



3



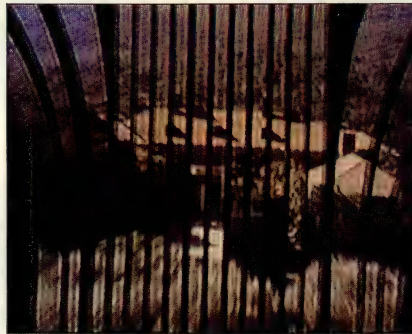
4



5



9



10



11



15



16



17

BEGUILERS ^{☆☆}

Where, we are often asked, does our think-and-blink puzzle department get its ideas? Sometimes from a junk drawer. These four visual stumpers were inspired by items found in our desks. Finding the answers may take some rummaging, too.

ANSWERS, PAGE 57

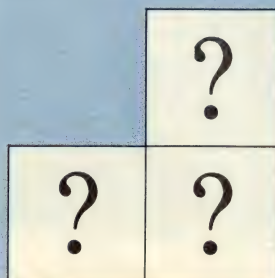
TOP SECRET

Replace three of the bottle caps in this pyramid (with Perrier, Evian, or Ferrarelle) so that no two of the same cap touch.



DICEY SITUATION

Three identical dice—bearing the numbers 1, 2, 3, 4, 5, and 6—have been stacked as shown. What are the numbers on the left (hidden) side of the stack?

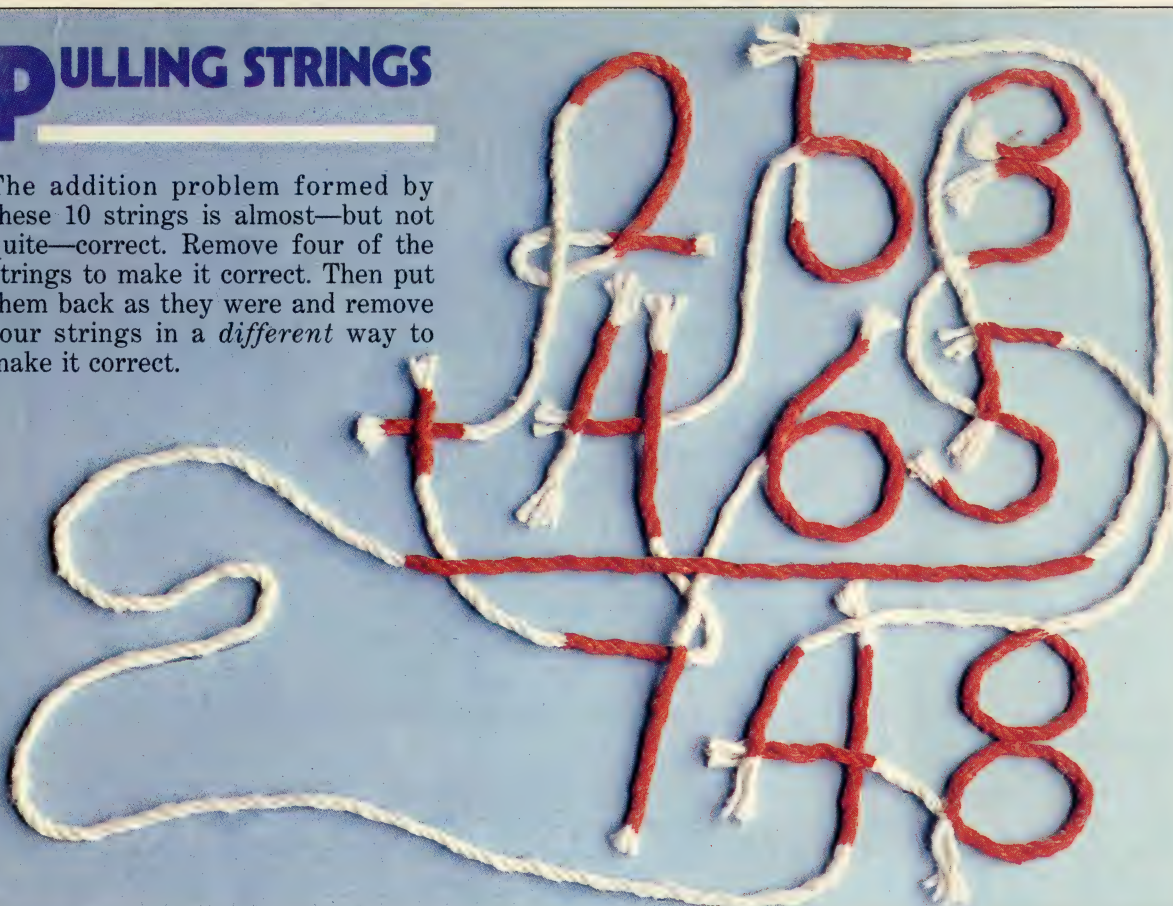


HOW ODD

Move two—and only two—items in this configuration to get an odd number of cents in every square. (Currently two squares have an even value.) You may move two coins, two matches, or one of each. When you're done, every coin must be in a square and every match must be part of a square.

PULLING STRINGS

The addition problem formed by these 10 strings is almost—but not quite—correct. Remove four of the strings to make it correct. Then put them back as they were and remove four strings in a *different* way to make it correct.



PHOTOGRAPHS BY STAN FELLERMAN

Top Secret and How Odd are by Will Shortz; Dicey Situation and Pulling Strings are by Marek Penszko.

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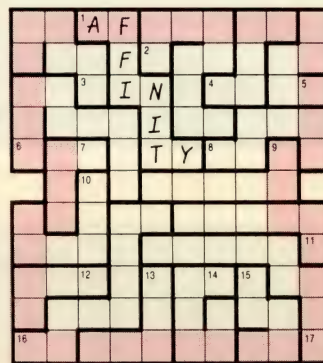
INSIDE AND OUT

By Will Shortz

★★

Each sentence below has a hidden word that is defined somewhere in the line. For example, sentence #1 conceals the word *army*, which is defined as "liking." (The number of letters in the answer is shown in parentheses.) Enter each answer in the grid beginning in the appropriately numbered square and proceeding along the outlined path. When all the answers have been entered in this way, the shaded squares on the grid's border—starting in the upper left corner and reading clockwise—will spell a quote by Christopher Morley.

1. By covering the sheet with paraffin, it yielded a luster to the worker's (liking) (6)
2. If the girls look promising, let one try out for the team. (9)
3. The sound of the bird in Handel's oratorio left me bewildered. (6)
4. Seven visitors remained in part of New England. (5)
5. The darkness had everyone scared. (5)
6. Ray, the clean-up man, described the circus to Diana. (9)
7. The hungry fox encircled the sleeping farm animals. (4)
8. We discussed a political theory of freedom in our philosophy class. (6)
9. Our next entry in the talent competition shows room for improvement. (6)
10. It's hard to overcome a downwind in a field of expert bicyclists. (6)
11. The metal pin enabled me to fix the Swiss watch. (6)
12. Several taxpayers don't think the rate adjustment is fair. (4)
13. The Indian language is behind in the development of new words. (5)
14. Father ran downtown on a quick trip to the store. (6)



15. We need to repair a diode in the receiver. (5)
16. Martha taught the yogi some tricky kind of exercises. (9)
17. Color showed in the violent anger in each man's face. (9)

PENCILWISE PLUS ANSWERS BEGIN ON PAGE A14.

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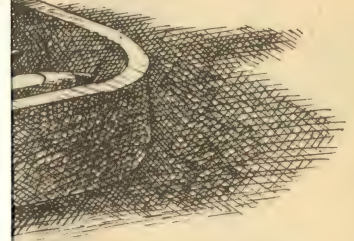
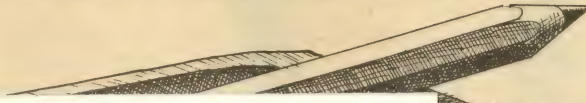
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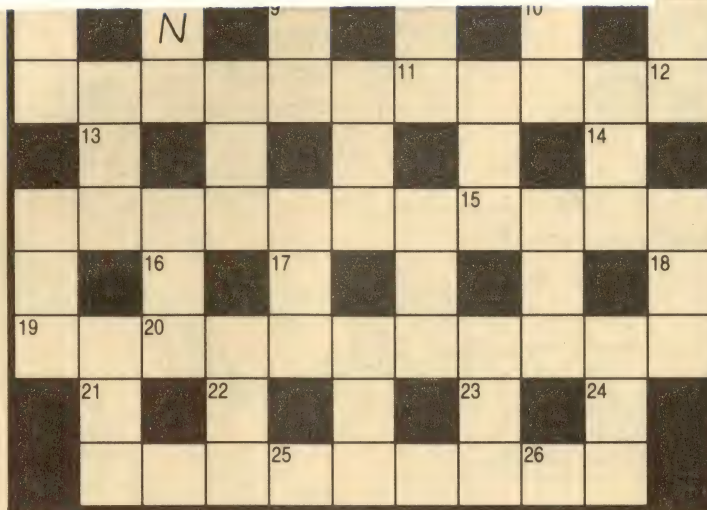
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BY SCOTT MARLEY

north, south, east, or west. The clue indicates the length of the word. You are to know that each letter in the word is in exactly two words—no more, no less. The word has been filled in as an example.

ANSWER, PAGE 54



CLUES

- 1S Inert gas (5)
- 2W Film star Garbo (5)
- 2E Festive celebration (4)
- 3S Highly proficient (5)
- 4N Blossom part (5)
- 5N Commencement (5)
- 6S Leisure suit material (9)

- 7N Despire (4)
- 8W *Queen Mary*, for one (4)
- 9N WW2 attack site (5, 6)
- 10N Spin like a dervish (5)
- 10S Have on (4)
- 11W "Mister" in Munich (4)
- 12N Individuals (7)
- 13N Instrument played with hammers (9)
- 14N Gallup's rival (5)
- 15W Easter hats (7)
- 16N Pueblo plaster (5)
- 17N President John Quincy ... (5)
- 18N ... and his predecessor (6)
- 19E Exotic citrus fruit (7)
- 20N Sir's counterpart (5)
- 21N Coin-operated phonograph (7)

- 21S City once called Zion (9)
- 22N Military flight formation (8)
- 22S Certain (4)
- 23N Musician's timekeeper (9)
- 24S Carouse (5)
- 25E Evil incarnate (5)
- 26E Limerick or sonnet (5)

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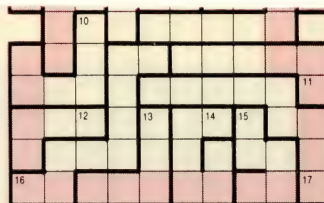
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6. Hay, the clean-up man, described the circus to Diana. (9)
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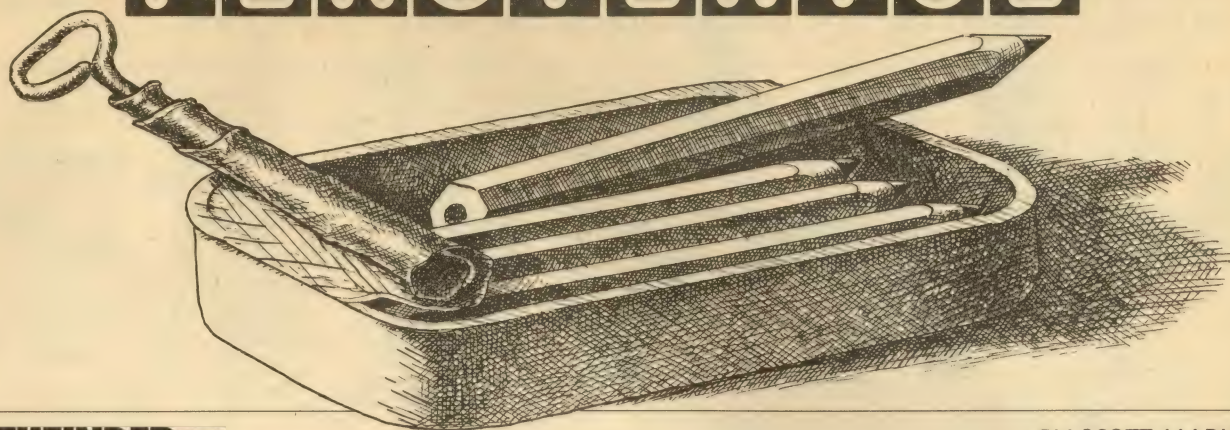
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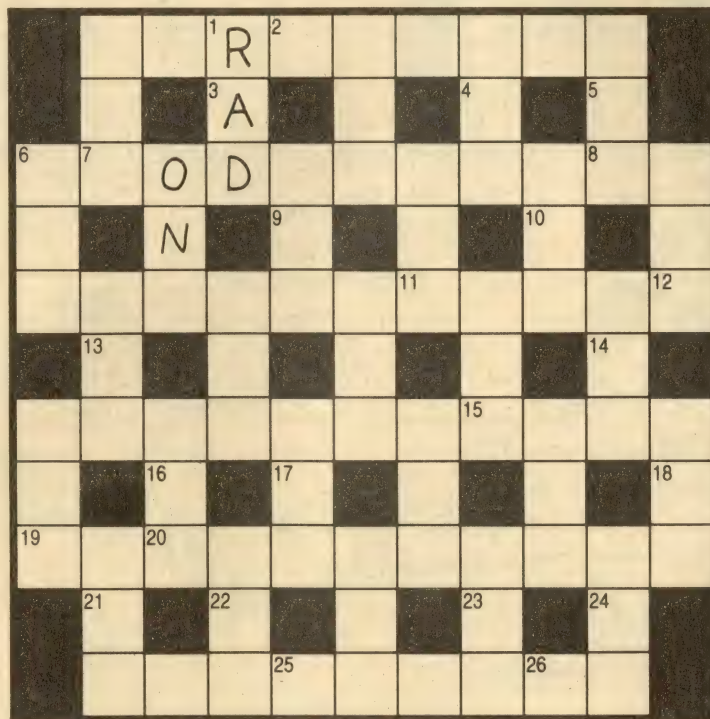
PATHFINDER ★★

BY SCOTT MARLEY

You'll need some straight thinking to work your way through this twisty crossword. Every answer makes one or more right-angle turns through the grid, beginning at the appropriately numbered square and proceeding in a path for you to determine. The letter after the clue number indicates the an-

swer's starting direction—north, south, east, or west. The number in parentheses after the clue indicates the length of the answer. It will help you to know that each letter in the completed grid will appear in exactly two words—no more, no less. The first answer has been filled in as an example.

ANSWER, PAGE 54



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- 22S Certain (4)
- 23N Musician's timekeeper (9)
- 24S Carouse (5)
- 25E Evil incarnate (5)
- 26E Limerick or sonnet (5)

AT THE SCENE OF THE ACCIDENT ★★

BY WILL SHORTZ

How good an eyewitness are you? Study this picture for up to three minutes . . . then turn to page 35 for questioning. Once

you turn, you will be relying solely on your memory of what you have seen.



SHE'S GOT IT ★

BY C. F. MURRAY

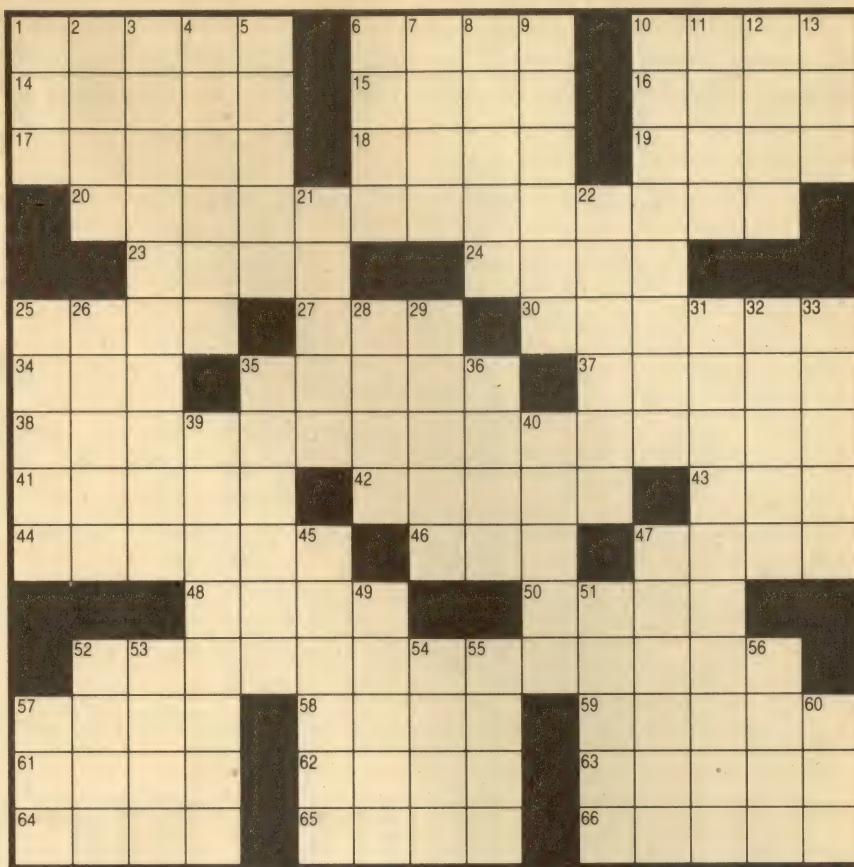
ACROSS

- 1 Hammer and saw, e.g.
- 6 ____ and haws
- 10 Word before bang or dunk
- 14 Chef's garment
- 15 Salt Lake City's home
- 16 Rushed madly
- 17 Holy city of Islam
- 18 Actress Teri
- 19 Libra's birthstone
- 20 Yarn spun by E. B. White: 2 wds.
- 23 Jazz's Fitzgerald
- 24 Women's athletic club: Abbr.
- 25 Young lady
- 27 Coffee holder
- 30 Man with a divining rod
- 34 "Army" insect
- 35 *Monty Python and the Holy ____*
- 37 Father: Prefix
- 38 Massachusetts resort: 2 wds.
- 41 Trumpet sound
- 42 Shimon of Israel
- 43 Relative of "gosh"
- 44 Apportions
- 46 "____ and improved!"
- 47 Russians, in headlines
- 48 Colorado Indians
- 50 Uttered
- 52 Famed fire-starter of 1871: 3 wds.

- 57 Carry-all bag
- 58 Film producer de Laurentiis
- 59 Did a blacksmith's job
- 61 Done with
- 62 Change for a five
- 63 Showed on TV
- 64 Army chow
- 65 London's royal stables
- 66 Schoolroom furniture

DOWN

- 1 Scot's cap
- 2 Cartel in the news
- 3 Symphonic
- 4 People from town
- 5 Traffic tie-up
- 6 Author Victor
- 7 Coup d'____
- 8 1955 Borgnine title role
- 9 Clever, in business
- 10 Hidden ship passenger
- 11 Easy canter
- 12 Saudi or Iraqi
- 13 Blanc or Tormé
- 21 1960 hit "Tell ____ I Love Her"
- 22 "Monkey Trial" defendant
- 25 Deadly African snake
- 26 Totally: 2 wds.
- 28 Large file
- 29 Actor-writer David
- 31 Theater entrances: 2 wds.



ANSWER, PAGE 57

- 32 Flubbed
- 33 Carpool organizers
- 35 Slum
- 36 Italian coins
- 39 Suit pants
- 40 Full of the latest
- 45 Rarely
- 47 Pop singer Lionel
- 49 Paris's river
- 51 Syrian president
- 52 Turn at chess
- 53 Numbered highways: Abbr.
- 54 All over again
- 55 Motown's Diana
- 56 *Time* span
- 57 *Magnum's* Selleck
- 60 Dentist's degree

WORD WAR I ★

BY ANDREA CARLA MICHAELS

These are fighting words! Each answer below is a word or phrase that begins with the letters W-A-R. For example, the clue "Bent, as a record" would lead to the answer **WARPED**,

while "Wallis Simpson's middle name" would be **WARFIELD**. If solving any of these proves to be a losing battle, you'll find all the answers on page 54.

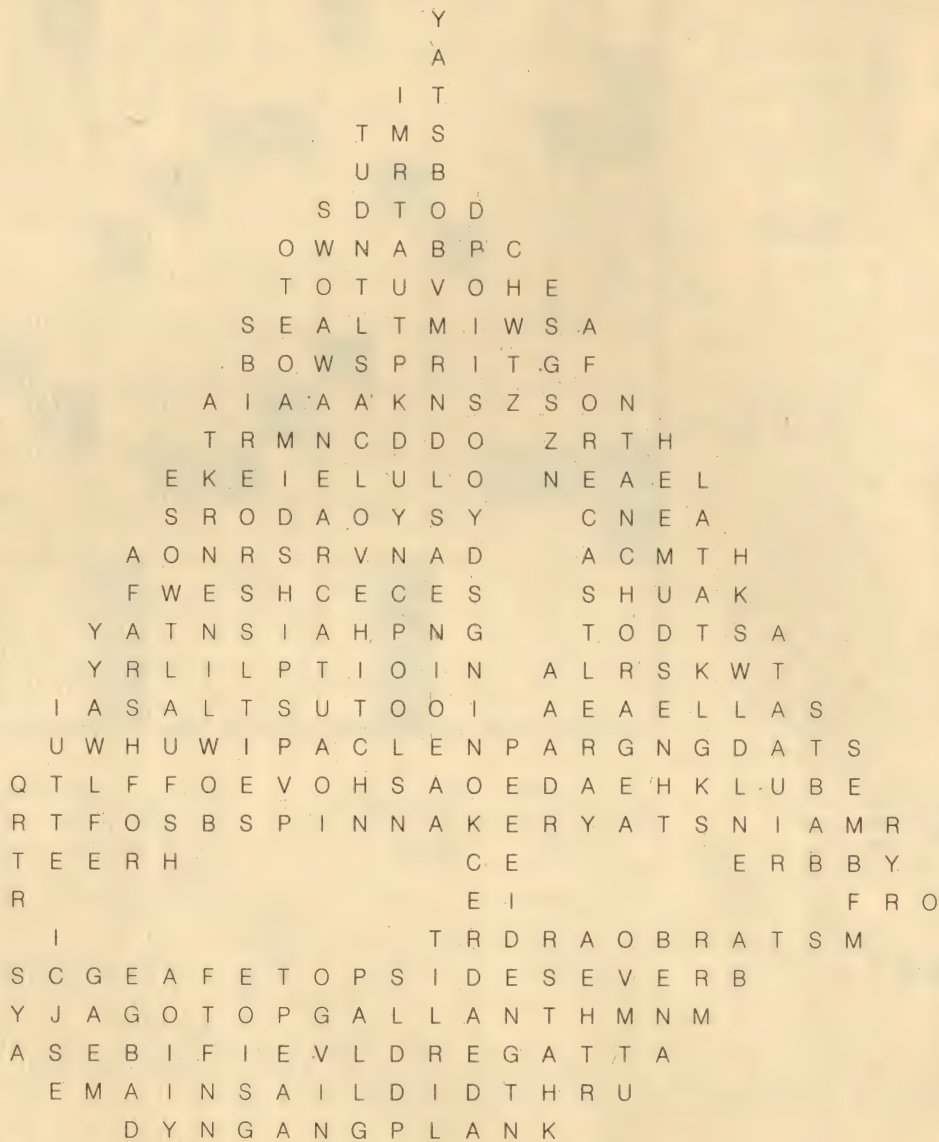
1. Poland's capital _____
2. "DANGER!" sign _____
3. Former chief justice Earl _____
4. Theater costumes, collectively _____
5. Colorful songbird _____
6. Pop artist Andy _____
7. Male witch _____

8. Police search authorization _____
9. Mild heat _____
10. Brothers of movie studio fame _____
11. Tusked African mammal _____
12. "Alfie" singer Dionne _____
13. Prison head _____
14. "Money back" promise _____

A Yachting Word Search

Avast, mateys! This sloop-shaped grid is rigged up with 40 sailing terms, each hidden in a straight line horizontally, vertically,

or diagonally. Can you fathom them all? To check your performance, set a course for the Answers, page 60.



AMERICA'S CUP	BULKHEAD	FORECASTLE	PORT	SPINNAKER
AMIDSHIPS	BULWARKS	FOREMAST	QUARTERDECK	STARBOARD
ANCHORAGE	CABIN	GANGPLANK	REGATTA	STEERAGE
AVAST	CLOVE HITCH	GRAPNEL	RIGGING	TOPGALLANT
BILGE	COMPANIONWAY	LUFF	SCHOONER	TOPSIDES
BOBSTAY	CUTWATER	MAINSAIL	SHOVE OFF	WINDLASS
BOW LINE	DAVITS	MAINSTAY	SHROUDS	YACHT
BOWSPRIT	DEAD RECKONING	MIZZENMAST	SLOOP	YAWL

This recently discovered puzzle appeared in the world's first crossword contest (see box). The winner's time was 10 minutes 10 $\frac{2}{5}$ seconds. How does your time compare?

ANSWER, PAGE 57

HORIZONTAL

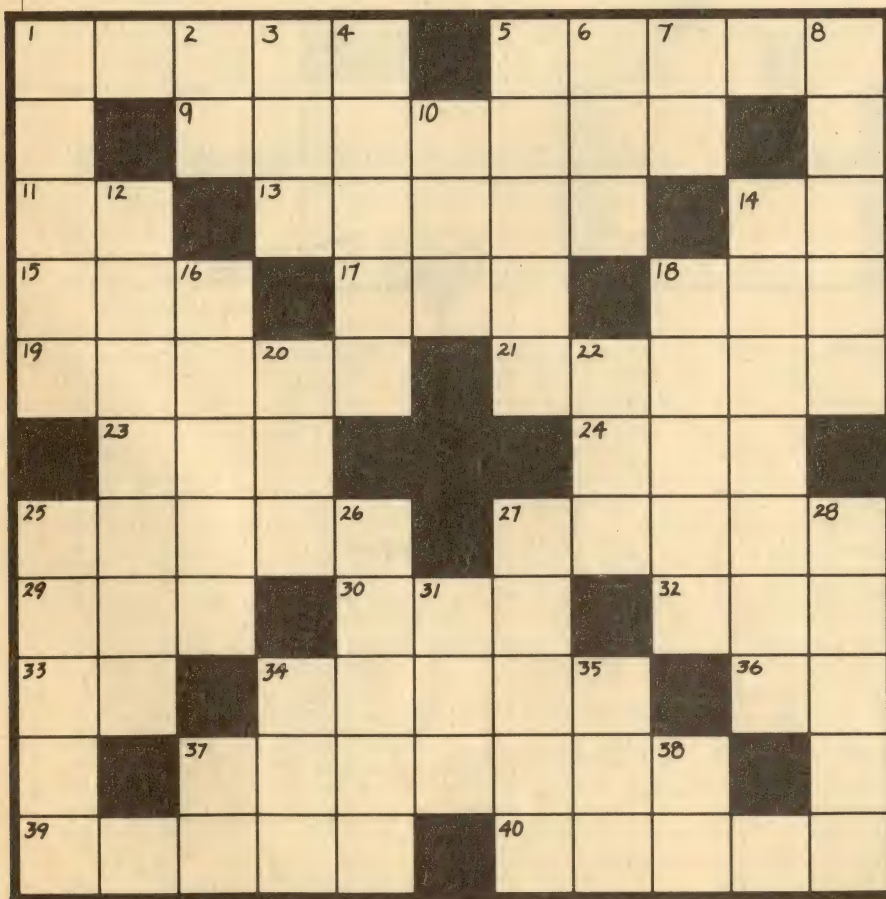
- 1 Baffle
- 5 Inflamed
- 9 Model
- 11 Exclamation
- 13 Type of horse
- 14 Italian river
- 15 Upper portion
- 17 Japanese coin
- 18 Negative
- 19 Places
- 21 Lachrymose
- 23 Form of pastry
- 24 Negative
- 25 Coin
- 27 Concede
- 29 Skill
- 30 Pronoun
- 32 Sherbet

- 33 Part of "to be"
- 34 Ass
- 36 Preposition
- 37 Violent storm
- 39 Displays
- 40 Work for

VERTICAL

- 1 Crosspieces
- 2 Above
- 3 Indicate systematically
- 4 Asks
- 5 Substitute
- 6 Notwithstanding
- 7 Preposition
- 8 Black wood
- 10 One

- 12 Troughs for grain
- 14 Colonnade
- 16 Place
- 18 Woman in Bible
- 20 Numeral
- 22 Finish
- 25 Twos
- 26 Possessive pronoun
- 27 Hanging
- 28 Tight
- 31 Vase
- 34 Weapon
- 35 Elegiac poem
- 37 Directional preposition
- 38 Alternative conjunction



Could You Have Been Crossword Champion of the World?

By any account 1924 was an excellent time for new products and business ventures. In that year "Little Orphan Annie," Wheaties, Chrysler, M-G-M, Simon & Schuster, and Macy's Thanksgiving parade were all started.

It was also the year the world's first crossword contest was held. Responding to newspaper announcements, some 300 ardent puzzlers gathered on Sunday, May 18, at New York's Ambassador Hotel, to organize the now-defunct Cross Word Puzzle Association of America. The primary purpose of the meeting, as stated by its organizers, was to promulgate higher standards in the construction of crossword puzzles. (Those were the days when crosswords still ran made-up abbreviations and sometimes grids with several unconnected parts.) But the eager fans had the business set aside early for an open solving contest. Greg Harts- wick, a pioneering puzzle editor at the *New York World*, supplied the single 11 x 11 puzzle (see left), which everyone raced to complete.

The winner was William Stern II, a 1923 Columbia Law School graduate, who solved the puzzle in a swift 10 minutes 10 $\frac{2}{5}$ seconds, thereby earning the title "Cross Word Puzzle Champion of the World."

Stern's winning technique was interesting: "My first move," he said, "is to read all the definitions. Among these I am sure to find some familiar and over- worked words (such as *bog*, *fen*, *pen*, *boa*, *emu*, and *roc*) which I can set into place and be off to a flying start." Thus, even in 1924, it helped to know crossword "clichés"!

Solvers have gotten a lot bet- ter—and faster—during the past 63 years, and we thought you might enjoy matching wits with the first crossword contestants. How does your solving time com- pare to Stern's? If you had com- peted in 1924, could you have been crossword champion of the world?

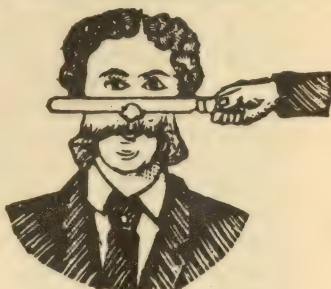
—W. S.

The magic tricks illustrated below come from a turn-of-the-century catalog issued by Martinka & Co. It billed itself as "Headquarters of Magicians of America, Manufacturers and Inventors of Fine Magical Apparatus and Illusions." The description of each illusion has been translated here into simple

substitution cipher. Letter substitutions remain constant throughout each trick, but change from one trick to the next. The prices appear as originally given. How many of the tricks can you decipher?

ANSWERS, PAGE 54

1. CUTTING TRICK



OLB SCHMLOXB RONTZ
YLMGZ MC JCZH. RUZ
DZXGSXEZX WJRC MLRS UMC
LSCZ, WOJOMLV O RUXMTT
SG USXXSX. AUZL XZESQZH,
MR TZOQZC LS CWOX SX
ASJLH. 45¢

2. NEVER GETS WET



U WXUYIEIR CG ZUYL EZ
IOHCKY EYIC U VUZEY CG
KUIMH, RMI IOM BUNESEUY
VHEYNZ EI CXI DMHGMSIAR
LHR. BUR VM XZML UYR
YXBVMH CG IEBMZ. 40¢

3. BAFFLING PRODUCTION



IXHO GOYKDN DP VXFFTCJ
IVOMTZFFR GZNO HXLLOH
OJJI PHDG YKO GDXYK. XV
YD ITQ MZC LO MDGVHOIION
TC MKOOEI ZCN ZIIXGO
YKOTH PXFF IKZVO BKOC
HOFQZION. @50¢

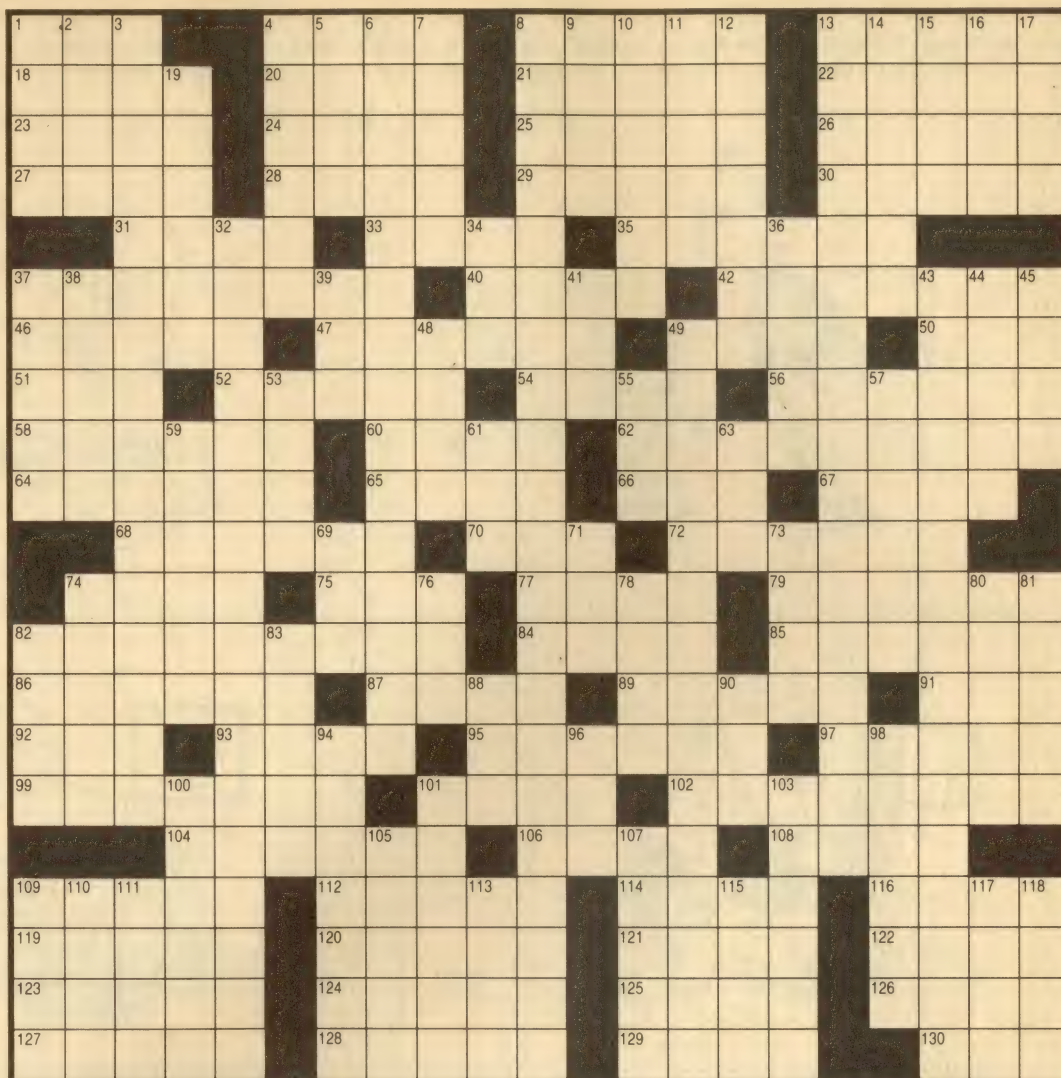
4. AERIAL SUSPENSION



R SFVHY ZK RYMHC VL
XRHRGSTY ZG CFT TGY ZU. R
SZIIZG LCVSA. CFT
VHHMLVZG'L TUUTSC VL
RHLZ EKTRCHP TGFRGSTY
OFTG URGSP SZLCMITL RKT
MLTY. \$75.00

ACROSS

- 1 "Welcome" site?
 4 Kind of stocking or language
 8 "Broom ____"
 13 Crash-land, in a way
 18 Mid-term
 20 Stub ____ (trip)
 21 Curved moldings
 22 Oval windows
 23 Greek goddess, or her shoes?
 24 Like a well-kept lawn
 25 Hussy
 26 Domingo, e.g.
 27 101 ____ for a *Dead Cat*
 28 Stooped
 29 Baffled
 30 Mirror view
 31 Othello's ensign
 33 Have on
 35 Stab: Var.
 37 "April Love" singer
 40 Five-time Socialist nominee
 42 Not extempore
 46 1966 Michael Caine film
 47 Wholly
 49 Tournament passes?
 50 Flat in Soho, maybe
 51 "____ favor, Señor"
 52 Meths.
 54 Cold shower?
 56 War-dance accompaniment
 58 Unrest due to purposelessness
 60 Puzzle-page feature
 62 Olympic VIPs
 64 Day-long race site
 65 Bone up
 66 Omega's predecessor
 67 Cleaving tool
 68 Burdened by
 70 ♣, ♦, ♥, or ♠
 72 Lincoln's State Secretary
 74 "____ be in England ..."
 75 Goose, in Grenoble
 77 Billy the kid?
 79 Lowlife?
 82 Oracle's work
 84 On cloud nine?
 85 So to cause horror
 86 "Je te plumerai ____"
 ("Alouette" lyric)



ANSWER, PAGE 57

- 87 Reason for a suit
 89 Odin's coterie
 91 Eagle + 2
 92 Egg: Prefix
 93 Feeling exercised?
 95 Grommet
 97 Strike from the record
 99 Goulash ingredient
 101 Sailor's spar
 102 1930s pro-Nazi league members
 104 Repetitive Philippine city
 106 ____ time (never)
 108 Hebrides island
 109 Organisms' bodies
 112 Badgerlike animal
 114 "Is ____ earthquake ...": Cole Porter
 116 '70s cop show
 119 Boy, contemptuously

- 120 Waggish
 121 Mignon follower
 122 Causing fright
 123 Ritzy fiddle
 124 Small egg
 125 Harmless bloke
 126 Booboo
 127 "____, the doctor"
 128 The Tempter
 129 Taxi trophy
 130 Troubadour's tune

DOWN

- 1 PC function list
 2 1945 losers
 3 Start over
 4 China's "Curtain" material
 5 Western Indian
 6 Comic song of 1889
 7 Fiddler matchmaker

- 8 Comment from II Samuel 1:27
 9 "____ a Kick Out of You"
 10 Optician's wares
 11 Ten, to Tacitus
 12 ____ as a clam
 13 Example of scaling down?
 14 Hockey players
 15 Melt ingredient
 16 Snake's target
 17 Take on
 19 Minnesota range
 32 Hits a major slump
 34 Fuss
 36 Prince Valiant's wife
 37 Of the Vatican
 38 Adm. Byrd book
 39 "____ for Nancy"
 41 Feathery wrap
 43 1936 Dorothy Parker book
 44 Ham it up
 45 Reps.' rivals
 48 Iron-handed ruler
 49 Words from Quince (A *Midsummer Night's Dream*)
 53 ____ Can (Sammy Davis, Jr. book)
 55 Mischievous sprite
 57 "Snow White" prop
 59 ____-Tung
 61 Fire a ray-gun
 63 Trivial Pursuit need
 69 Publ. enemy's designation
 71 Luau food
 73 African gully
 74 Old region of Hungary
 76 Sign of a "swell" guy?

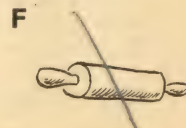
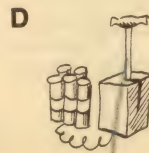
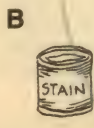
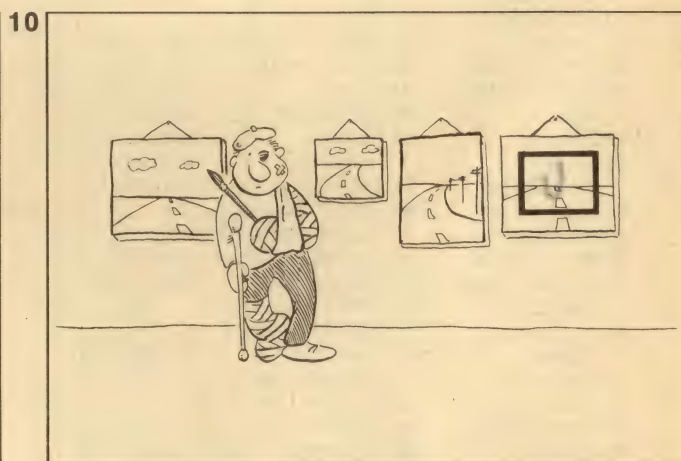
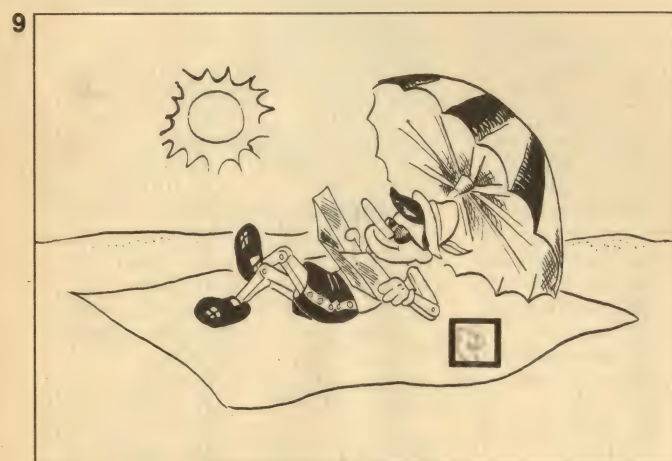
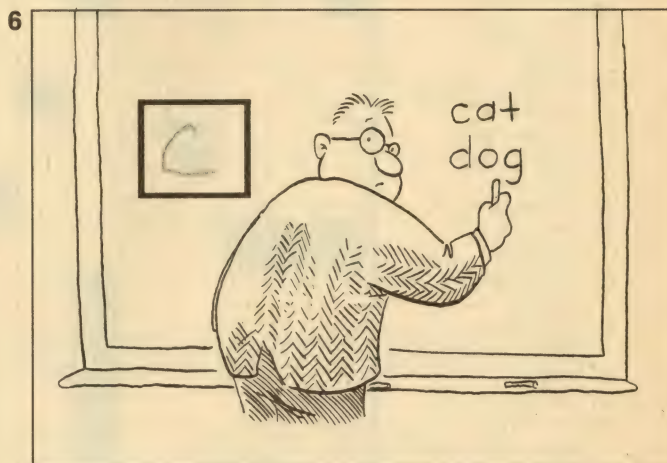
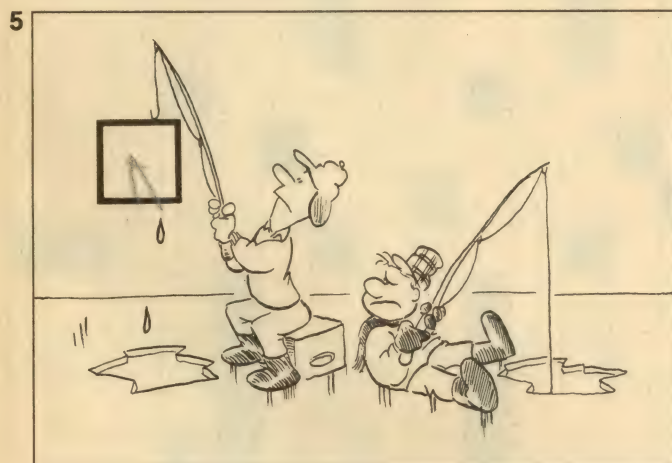
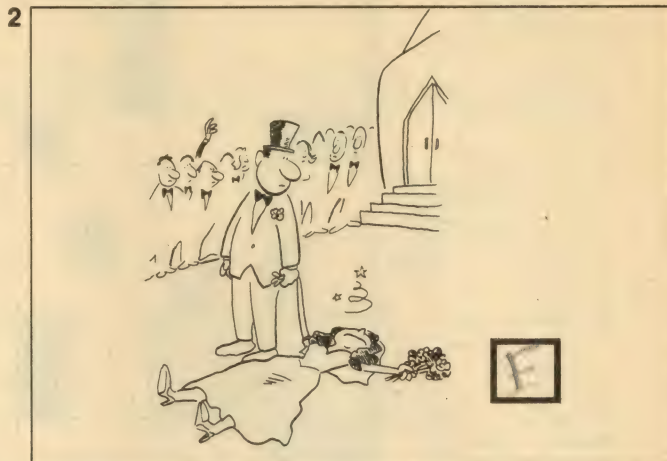
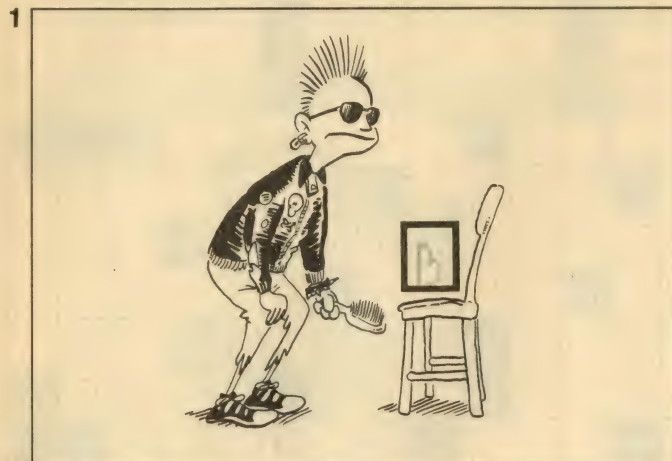
- 78 "I've got ____ in Kalamazoo"
 80 Some party!
 81 Actor Lew
 82 Fizz lead-in?
 83 Tropical lizard
 88 New Deal prog.
 90 RV contents?
 94 Beehives, e.g.
 96 Salamander
 98 Salon jobs
 100 Theater district
 101 Was paroled
 103 XC
 105 Grub
 107 Caroline, to Ted
 109 Did laps, maybe
 110 "Heavens to Betsy!"
 111 Tsp. or yd.
 113 Queen of scat
 115 Manhattan Project topic
 117 Tosca tune
 118 Ultraconformist

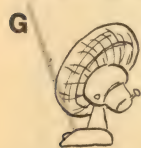
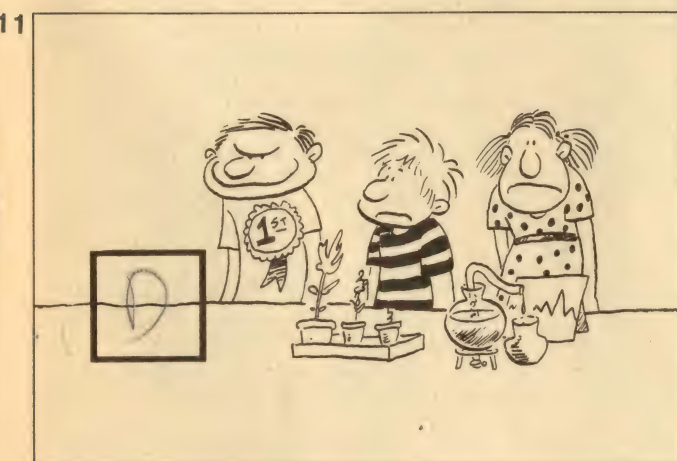
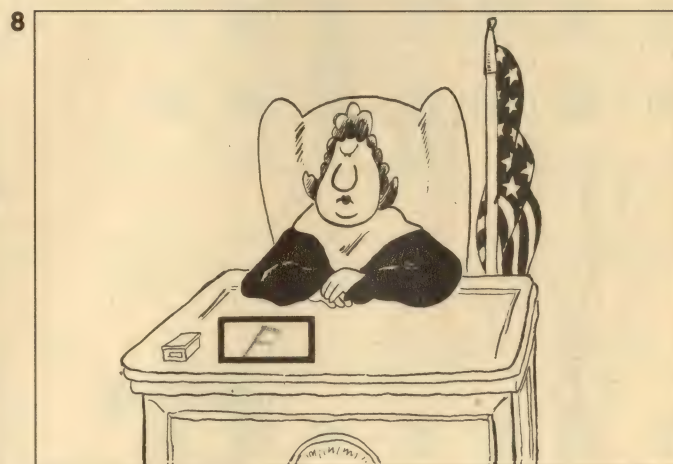
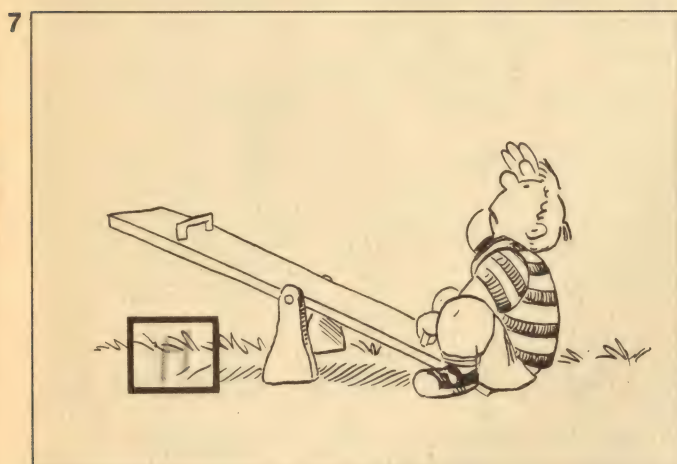
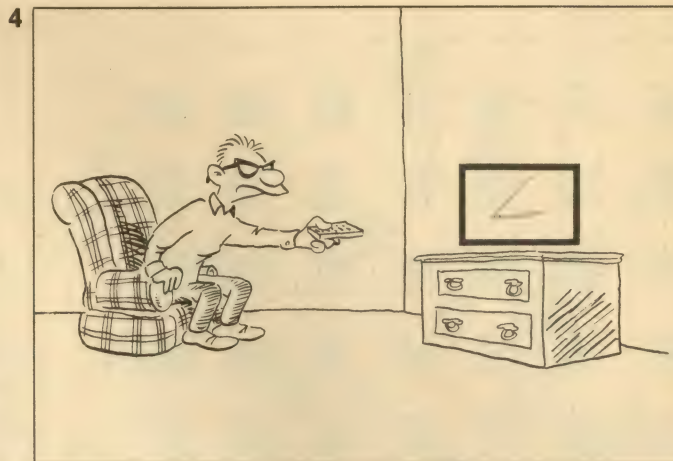
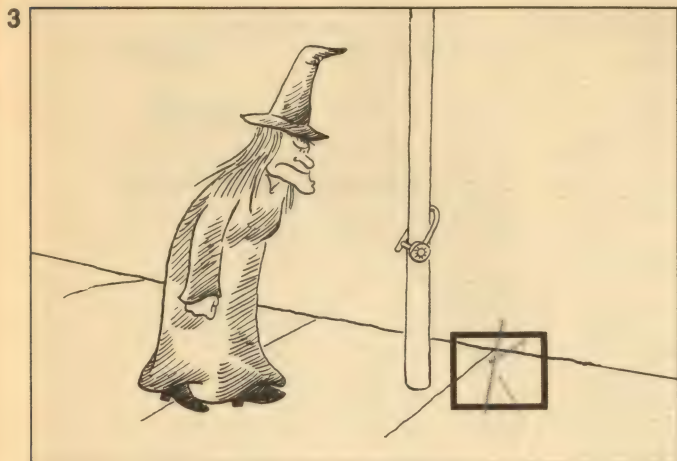
WHAT'S SO FUNNY? ★★

Did you ever tell a joke and forget the punch line? The artist here has drawn 12 cartoon gags and forgotten to include the part that makes each one funny. To complete the gags, place

each of the missing objects (labeled A-L) into the appropriate cartoon (1-12). The gray squares indicate roughly where each object belongs in the picture.

ANSWERS, PAGE 57





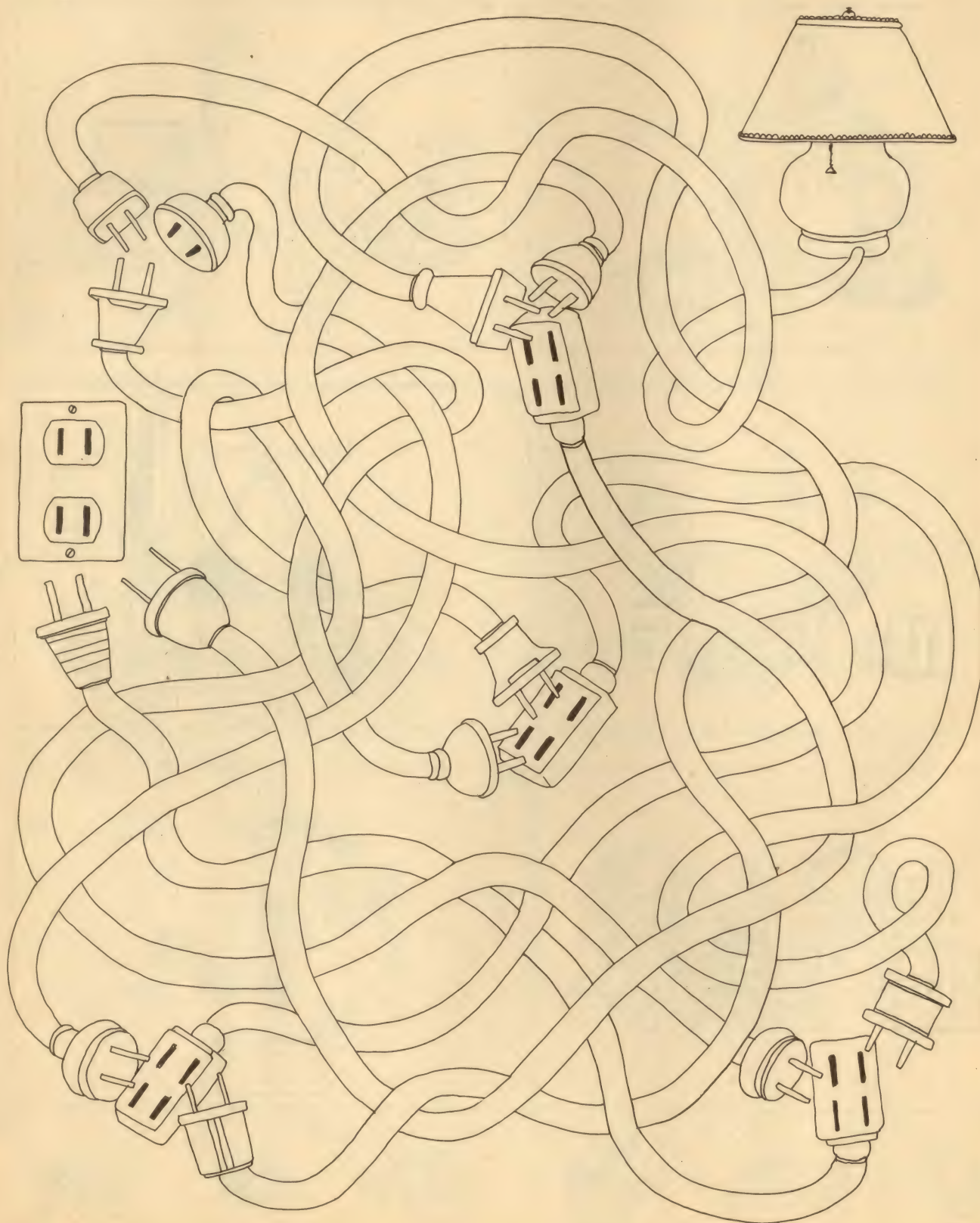
LET THERE BE LIGHT ★

A MAZE BY PETER MAY

When it comes to getting this lamp plugged in, we're completely in the dark. Our current quandary is owed to the tangle of extension cords on the living room floor. Only one

succession of hookups will lead from the wall outlet on the left to the lamp at upper right. Can you help us make the right connections?

ANSWER, PAGE 60



CRYPTIC CROSSWORDS ★★★

Each clue in a cryptic crossword contains two parts: a definition of the answer and a second description of it through wordplay. Finding the dividing point between parts is the key

to solving. Watch for anagrams, hidden words, charades of two or more smaller words, and other language tricks. Puzzle 2 is harder than Puzzle 1.

ANSWERS, PAGE 56

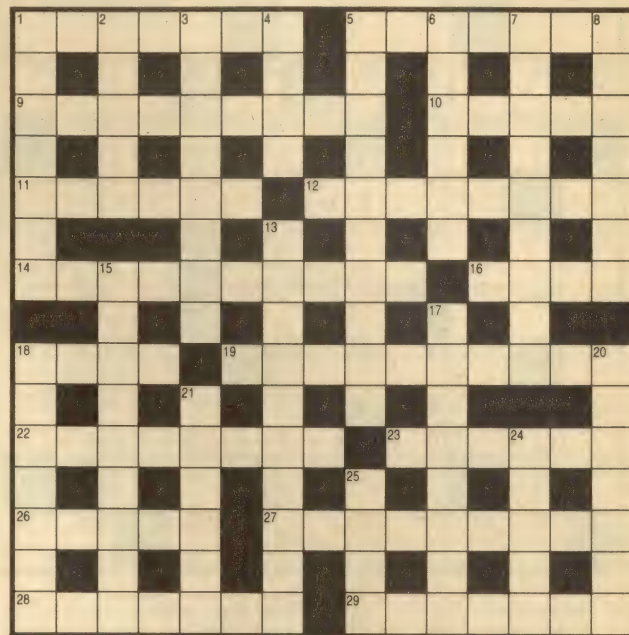
PUZZLE 1 BY SCOTT MARLEY

ACROSS

- 1 Red lips possessed by prisoner (7)
 5 Come to grief as company starter (7)
 9 Big star could make pa nervous (9)
 10 Not quite soft as couches (5)
 11 Eccentric I doubt has to win at auction (6)
 12 Fortune teller takes in a distant sailor (8)
 14 Refurbished cane chairs are sweet, but phony (10)
 16 You and I are, or had been (4)
 18 Damthel thpoken of in legend (4)
 19 Time in middle of short distance (10)
- 22 After last month, make a speech trim (8)
 23 Haagen-Dazs's ingredient list (6)
 26 Head cook holds one (5)
 27 Drunken lush got an attack (9)
 28 Bound to have fibbed about M.I.T. (7)
 29 Little light in very thin house (7)
- 5 Try fine art restored by men's club (10)
 6 Runs a feature, showing *Reckless* (6)
 7 Delaying action to turn alcohol into sugar? (9)
 8 Set aside a table, and bring more food? (7)
 13 Father's calling, so I drop the bananas (10)
 15 Schematic reorganization for oral instruction (9)
 17 Leave the country's regime at rioting (8)
 18 Inaccurately claimed kind of deduction (7)
 20 Reaching halfway to river's generator (7)

DOWN

- 1 Swear about he-cat's behavior (7)
 2 Computer data bit from program in unit manipulation (5)
 3 Narrow passage, it's said, is uncurved (8)
 4 Lack of approval from this corner (4)



- 21 Predictor, I hear, making return on investment (6)
 24 Sounds like Galahad in the dark (5)
 25 Employs topless school vehicles (4)

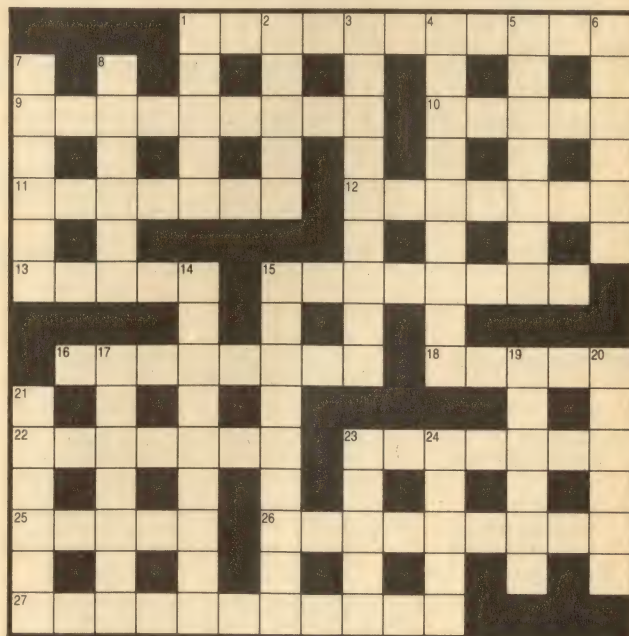
PUZZLE 2 BY PAUL LUSCH

ACROSS

- 1 Sturdy sea vessels, light-brown, with damaged tail (11)
 9 Implications of conspicuous individuals (9)
 10 Biscuit provides iron in battle (5)
 11 Strange dialect used in fortress (7)
 12 Have ice crushed for effect (7)
 13 Dried poorly and tried again (5)
 15 Enough to compare following commercial (8)
 16 Fight about need for darkness during air raid (8)
 18 Overturning road bed leads to financial problems (5)
- 22 Sugar in cooking courses (7)
 23 Legitimately table support to league (7)
 25 Dance swindle near Georgia (5)
 26 Returned to make a road, give a speech, and disappear (9)
 27 Arrange the art score! (11)
- 5 Change pitch to contaminate about fifty (7)
 6 Pantry in cellar derided (6)
 7 Prisoner and knave agree (6)
 8 Excited at being the center of attention (6)
 14 Redesigned art deco, to a degree (9)
 15 An hour past midnight, guys with time to make amends (9)
 17 Middle of clay shaped like a dunce cap to the point (7)
 19 Everyone enthralled by naughty song (6)
 20 Pen was first to be designed (6)
 21 Tipsy chorus takes in suspense movie (6)

DOWN

- 1 Stuffed with chopped dates (5)
 2 Forbid Capone to be conventional (5)
 3 Will examine what could be meant (9)
 4 New lead for "Healthbeat" held by healthy reporter (9)



- 23 Erect a shopping center for Peruvian native (5)
 24 A thousand dollars, and nothing for fielder's equipment (5)

Answer the clues for words to be entered on the numbered dashes. Then transfer the letters on the dashes to the correspondingly numbered squares in the puzzle grid to spell a quotation reading from left to right. Black squares separate

words in the quotation. Work back and forth between grid and word list to complete the puzzle. When you are done, the initial letters of the words in the word list will spell the author's name and the source of the quotation.

ANSWER, PAGE 54

1U	2V		3M	4O	5H		6N	7D	8K	9F	10I	11Q		12U	13O	14C	15L	16E		17R	18T	19K
20U	21Q	22S	23P	24B		25I		26M	27E	28J	29D		30V	31C	32T	33E	34B	35K	36M		37J	38D
	39O	40U	41Q		42I	43C	44L	45V	46G		47R	48J	49O	50F	51V	52S	53C	54E		55L	56M	57R
58T		59A	60J	61V	62E	63D	64T	65I	66S	67O		68A	69K	70C		71D	72O	73H		74K	75E	
76T	77R	78K	79G	80O	81H	82Q		83L	84E	85K	86P		87J	88F	89U		90B	91R		92M	93E	94Q
95A	96N	97F		98T	99N	100R		101D	102F	103T	104M		105A	106E	107R		108N	109E	110J		111K	112D
113P		114P	115C	116U	117M		118O	119D	120B	121I	122U	123E	124K		125O	126H	127U	128T		129H	130Q	131G
132U	133A	134L	135O		136T	137O	138F	139Q	140J	141A	142C		143H	144A	145O	146P	147U	148M	149F		150Q	151N
152V	153S		154H	155F	156A		157P	158D	159N		160L	161N	162G	163K		164G	165H	166S		167N	168E	169Q
	170F	171N	172R	173J	174I	175A	176C		177C	178M	179O	180F		181E	182C	183M						

- | | |
|---|--|
| <p>A. Its license plate motto is "America's Dairyland" 68 95 105 59 133 175 156 144 141</p> <p>B. 12 Labors of Hercules, e.g. 90 24 120 34</p> <p>C. Bancroft-Fonda movie of 1985 (3 wds.) 115 176 53 31 70 43 14 142 182 177</p> <p>D. Star of <i>48 HRS.</i> (2 wds.) 158 7 63 29 38 71 112 101 119</p> <p>E. Major shift in opinion or spirit (3 wds.) 33 16 27 123 54 168 84 75 109
93 106 62 181</p> <p>F. Originator of a certain kind of rabbit ears (2 wds.) 9 50 170 102 88 155 180 149 97 138</p> <p>G. Colorado park 46 79 131 162 164</p> <p>H. Nautical freeloader 5 73 81 143 165 129 126 154</p> <p>I. South Pacific island paradise 10 25 42 65 121 174</p> <p>J. One concerned with moral precepts 110 173 60 140 28 37 48 87</p> <p>K. Highest bridge above water in America (2 wds.) 19 111 163 69 85 124 74 78 8 35</p> | <p>L. Reproach from a pharaoh's mother? (hyph.) 15 44 55 83 134 160</p> <p>M. Child's rocking toy (hyph.) 3 183 26 92 104 56 148 36 117 178</p> <p>N. 34-time Oscar nominee and 8-time winner (2 wds.) 6 96 99 108 167 161 171 151 159</p> <p>O. 1932 Faulkner novel (3 wds.) 67 13 125 80 135 4 145 179 72
118 137 49 39</p> <p>P. Ghoulish cartoonist Chas. 23 86 113 157 114 146</p> <p>Q. Nylon- or orlon-making process 150 11 139 82 21 41 169 130 94</p> <p>R. Home of football's Buccaneers (2 wds.) 172 77 100 91 47 17 57 107</p> <p>S. Watergate figure G. Gordon 66 52 22 153 166</p> <p>T. Best Picture of 1967 (with "U") (3 wds.) 18 32 58 64 76 98 103 128 136</p> <p>U. See Clue "T" (3 wds.) 1 12 20 40 89 116 122 127 132 147</p> <p>V. Cloud; halo 2 152 51 30 61 45</p> |
|---|--|

ACCIDENT: PART 2

(Continued From Page 24)

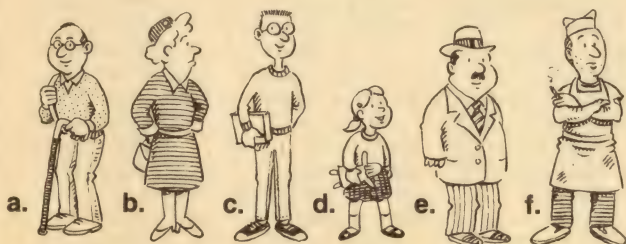
In the street scene on the earlier page, you were witness to an auto collision, a bicycle accident, an impending injury, and a probable case of arson. The police would like your firsthand account of what happened. Please answer the following questions to the best of your memory.

ANSWERS AND RATINGS, PAGE 54

1. Approximately what time was it? _____
2. What day of the week? _____
3. How many onlookers were standing in the intersection after the collision? _____
4. Was a policeman present? _____
5. What was the license number of the car in the foreground? _____
6. What state was it from? _____
7. What was the expiration date of the license? _____
8. How many people were in the car? _____
9. What traffic law had the driver broken? _____
10. Did the convertible's driver wear glasses? _____
11. What did her bumper sticker say? _____
12. What immediate hazard was her car causing? _____
13. What movie was playing at the theater? _____
14. What mishap was the marquee worker about to suffer? _____
15. What letter was he holding in his hand? _____
16. Above what store was the fire? _____
17. On what floor of the building did it start? _____
18. Who, among the people at the scene, looked the most likely to have started it? _____
19. What sign was posted at the open manhole? _____
20. What was the license number of the bicycle that ran into it? _____
21. Why was it probably not the rider's own bike? _____

Bonus Questions:

22-24. The police would also like to question other eyewitnesses to the accident. Which three of the following persons were present?



25. How had one of them changed his or her appearance since the accident? _____

FOLD THIS PAGE

THE WORLD'S MOST ORNERY CROSSWORD

BY MIKE SHENK

A Fine Mesh

The crossword on this and the next two pages has two independent sets of clues: "Hard" and "Easy." First, fold this page back on the dashed line so the clues below face the solving grid on page 37. If you use only the Hard Clues (appearing below and continuing under the grid), you'll find the puzzle uncommonly challenging. If you want help, or prefer a less severe challenge, open to the Easy Clues (tucked in beneath your fold on page 36).

HARD CLUES ★★★

- | | | |
|----------------------------------|------------------------------------|----------------------------|
| ACROSS | 68 Archeological find | 130 In _____ (unvaried) |
| 1 Soiree songfests | 69 L.A.-to-San Diego bearing | 131 Fresh |
| 10 immortalize | 70 P and p | 132 Cheers proprietor. |
| 17 Prepares for a second shot | 71 As You Like It setting | 135 Follower of John? |
| 24 "Stand by . . ." | 73 Marcel role | 136 Wilbur Post's palomino |
| 25 Massage, perhaps | 74 Shorts, of sorts | 137 Greed star |
| 26 Case of I strain | 76 Matching | 140 Israeli coin |
| 27 Look back | 77 Slingshot shape | 142 Sept.-Jun. grp. |
| 28 Old Kansas railhead | 78 Manitoba native | 143 1933 amendment subject |
| 29 While away | 79 The Morning Watch author | 145 Kind of life or wife |
| 30 Alaska-Yukon border mountains | 80 Die Fledermaus maid | 146 Con sequences? |
| 32 Whiz | 81 Main forces | 148 Garage event |
| 33 Preview | 84 Full of juice? | 150 Draw the line |
| 35 Olympic jersey monogram | 85 Swift's "definition of a style" | 153 Unsophisticated |
| 36 Acid-alcohol reaction product | 91 Gown material | 154 Cleek, more formally |
| 37 Protection from loss | 92 Judge of the dead | 155 Johnny of song |
| 40 Acid | 93 Lures | 156 Utmost |
| 41 Bonus card in canasta | 94 Nice nods? | 157 Symbol of triviality |
| 42 Sodium hydroxide | 95 But, to Berliners | 158 Learned to cope with |
| 43 Geometer's concern | 96 Much of "Deck the Halls" | 159 Warms up |
| 45 Eccentric fellow | 97 Gluttonize | |
| 46 Gnaw | 98 Eponym of a whisker style | |
| 48 Simmers down | 102 Cipher | |
| 49 Tuba | 103 Cheeky | |
| 51 Making matches | 106 Move slowly | |
| 53 Basketball team, e.g. | 107 Save | |
| 57 Top binary digit | 108 Mideast council of state | |
| 58 Five-time Wimbledon champ | 109 "Now listen!" | |
| 59 Lettuce choice | 111 Egotist's excess | |
| 62 Indian and others | 115 Scale | |
| 63 Thyroid-related, e.g. | 116 Makeshift | |
| 66 Sign of censorship | 118 Childhood connections? | |
| | 119 English Channel feeder | |
| | 120 Shetland fillies? | |
| | 121 Ship sinks | |
| | 123 Atrociousness | |
| | 126 Football's Grier | |
| | 129 Gladden | |

DOWN

- 1 Scrap
- 2 On pins and needles
- 3 Arab or Jew
- 4 Ammonia-derived compound
- 5 Drug traffic
- 6 Paulette's pal
- 7 "Illustrated Newspaper" begun 1855
- 8 Live oaks
- 9 Place
- 10 Seaver stat
- 11 Gemayel's country
- 12 Bring to light

THE WORLD'S MOST ORNERY CROSSWORD (CONTINUED)

Don't Peek
Until You Read
Page 35!



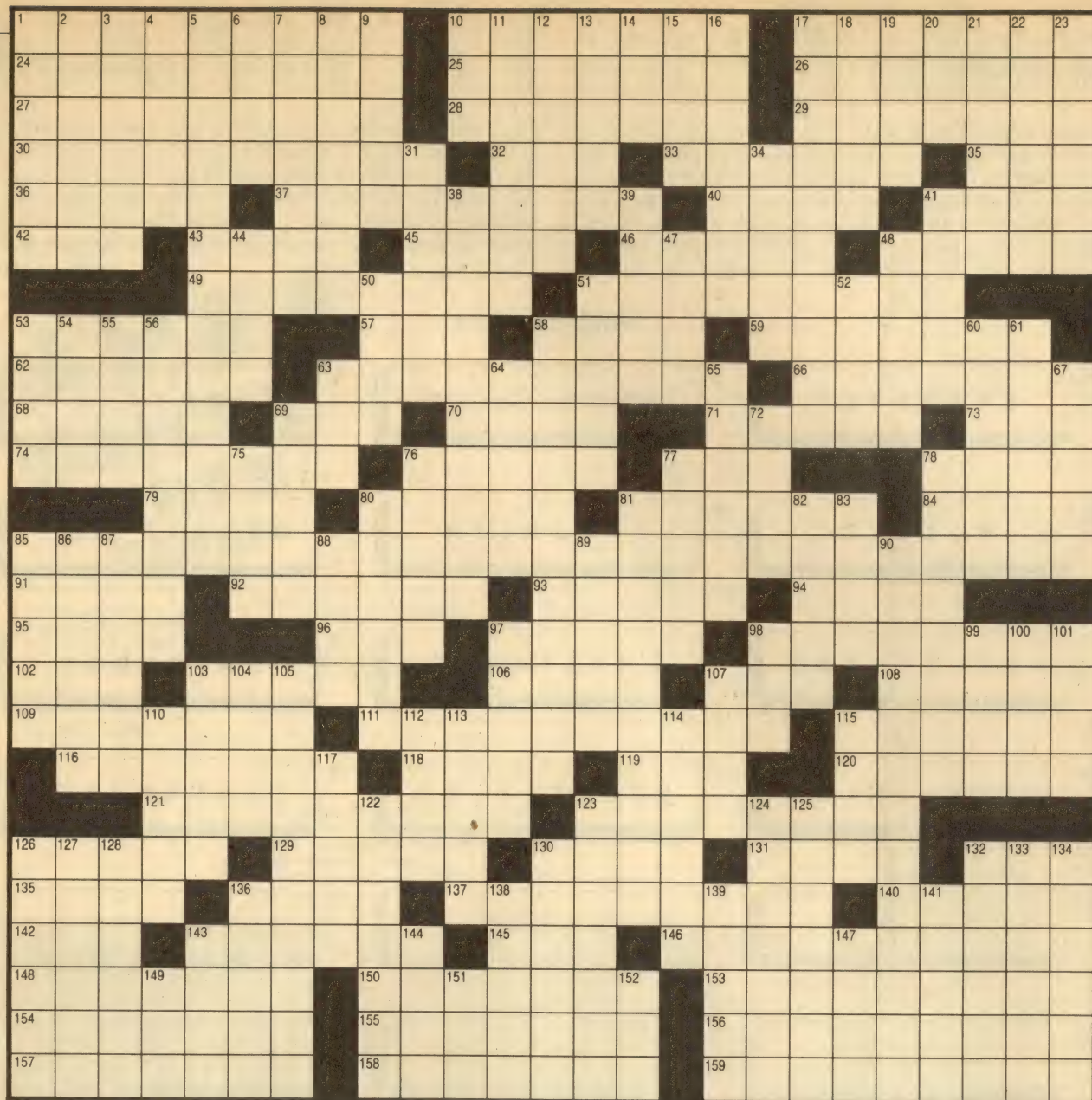
EASY CLUES ★

ACROSS

- 1 Private concerts
10 Raise
17 Puts more ammo into
24 "Just a minute": 2 wds.
25 Tension reliever
26 Vanity-increasing experience: 2 wds.
27 Talk of days gone by
28 Texas city
29 Fried apple dessert
30 Mt. ____ (Yukon peak): 2 wds.
32 Highest card
33 TV part
35 USSR rival
36 Acid-alcohol reaction product
37 Double ____ (1944 Fred MacMurray movie)
40 Mini-pie
41 Card above a deuce
42 Old soap ingredient
43 Region
45 Ducklike bird
46 Wear away, as soil
48 Refrigerates
49 Tuba's kin: 2 wds.
51 Forming couples: 2 wds.
53 Quintet (PANTED anag.)
57 Area code preceder
58 Tennis star Bjorn
59 Titanic sinker
62 Arctic and Atlantic
- 63 Of secreting glands (IRON CANDLE anag.)
66 Removal of pencil marks
68 Pottery fragment
69 Opposite of NNW
70 Greek Rs
71 Actress Eve
73 Marcel
74 Very short shorts: 2 wds.
76 Similar
77 Welsh river (in NEW YEAR)
78 Canadian Indian
79 Author James
80 Fred Astaire's sister
81 Major impacts
84 Not prerecorded
85 "____ make the true definition of a style": Swift, 5 wds.
91 Clumsy, as an excuse
92 Egyptian god
93 Worms and grub to a fisherman
94 French "yeses"
95 But: Ger. (BEAR anag.)
96 ____ Vegas
97 Small canyon
98 Union general Ambrose
102 Zero
103 Impertinent
106 2.54 centimeters
107 Except
108 Backless sofa
109 "Pay attention!": 2 wds.
111 Pride
115 Climb
116 Temporary substitute
118 Morse code units
- 119 British river (through EXETER)
120 Lads' partners
121 "____ sink ships": 2 wds.
123 Immensity
126 George Jetson's maid (YORES anag.)
129 Cheer up
130 Stuck in ____ (following routine): 2 wds.
131 Once more
132 Detective Spade
135 Plays roles
136 TV's "talking horse": 2 wds.
137 Scatterbrained movie comedienne: 2 wds.
140 Old marketplace
142 School org.
143 Undo an amendment
145 Central: Prefix
146 Prison work crews: 2 wds.
148 End-of-month store event: 2 wds.
150 Set boundaries for
153 Naïve
154 Teeing-off club: 2 wds.
155 "Johnny ____" (Babes in Arms song): 2 wds.
156 Fullest extent: 2 wds.
157 Not worth a ____: 2 wds.
158 Recovered from: 2 wds.
159 Prepares: 2 wds.
- 3 Mideast native (TIES ME anag.)
4 Chemical compound (in SLIMINESS)
5 Smuggling of illegal goods
6 Female friend: Fr.
7 Caron and Uggams
8 Evergreen oaks (CANINES anag.)
9 Stand in good ____ (be useful)
10 Period of history
11 Beirut's nation
12 Evoke
13 Gentleman's gentleman
14 Woodsman's prop
15 "Sawbucks"
16 ____ set (building toy)
17 Arranged for easy consulting
18 White heron
19 Cut of meat
20 Hall-of-Famer Mel (in BOTTOM)
21 Conductor Toscanini
22 Truck engine type
23 Uses aerosol
31 Very short time
34 Halves of a diameter
38 Approximately: 3 wds.
39 Long (for)
41 Imbibes
44 Units of radiation
47 Capital of Latvia (in IRRIGATION)
48 Havana resident
50 Sharpen, as a knife
51 Composure
52 Richard of No Mercy
53 Luxurious
- 54 Bounced-back sound
55 Tidy
56 Roofing material: 2 wds.
58 Fractures: 2 wds.
60 Title printed in red (CUR RIB anag.)
61 Express sorrow
63 Lisper's least favorite letter
64 ____ con carne
65 Easy basketball shots
67 Fencing swords
69 Meat-and-potatoes dishes
72 Philosopher Descartes
75 Infamous Roman emperor
76 ____ Ababa, Ethiopia
77 Used a pencil
78 The great old works
80 Orderly arrangements
81 Become sunnier: 2 wds.
82 Fish served "amandine"
83 Cowboy boot attachment
85 Blueprints
86 Hydrophobia
87 Egg dish
88 Artist's paints
89 Village greens: Fr. (SCRAP anag.)
90 Bionic Woman star: 2 wds.
97 Presents
98 Panhandler
99 Currier's partner
100 Copenhagen resident
101 Brings to a close
103 ____ Rebellion (1857 India event)
- 104 Jason's ship
105 Cartoondom's Cecil, for one: 2 wds.
107 Saloon order
110 Swiss cheese features
112 Do newspaper work
113 Singer Trini
114 Strangely exciting
115 Der ____ (Adenauer nickname)
117 West Indies volcano
122 Terhune animal book: 3 wds.
123 Scholarly
124 My aunt: Fr., 2 wds.
125 Penetrating discernment
126 Bird of prey (PARROT anag.)
127 Gasoline rating
128 Presented a play
130 SF writer Isaac
132 Mexican state (SOAR ON anag.)
133 Debated
134 Actor Raymond
136 Honeydew, for one
138 Protein-building acid
139 Person, place, or ____
141 Measuring device
143 Uncommon
144 Woven fabric (NOEL anag.)
147 Actor Beatty and others
149 "____ semper tyrannis"
151 Allow
152 Three times: Prefix

DOWN

- 1 Toothsome tidbit
2 Restless



ANSWER, PAGE 54

HARD CLUES (CONT'D)

- | | | | | | |
|-------------------------------|------------------------|---------------------------|--|---|-----------------------------------|
| 13 Professional parker | 34 Spokes | 63 Lombard Street feature | 85 Maps out | 105 Old sailing worry | 128 Put on |
| 14 Sack or can | 38 Somewhat | 64 Beanery order | 86 Frothing cause | 107 It has a head and hops | 130 <i>I, Robot</i> author |
| 15 Addition column | 39 Pine | 65 Moses Malone maneuvers | 87 Trattoria's <i>frittata</i> | 110 They've lost ground | 132 Chihuahua's neighbor |
| 16 Bridge builder | 41 Wets one's whistle | 67 Olympic weapons | 88 De-squeaks | 112 Do post-production work | 133 Made one's case |
| 17 With a full bibliography | 44 X-ray units | 69 Frets | 89 Paris's <i>Jardin des Plantes</i> and <i>Montsouris</i> | 113 Golfer Nancy | 134 Dr. Gillespie's portrayer |
| 18 Long-plumed bird | 47 City on the Dvina | 72 Quebec's Levesque | 90 Emmy-winner as Jaime Sommers | 114 Foreign | 136 Casaba, for one |
| 19 Butcher shop choice | 48 Desi Arnaz, for one | 75 Agrippina's son | 97 Conferments | 115 Old, in Oldenburg | 138 Containing -NH ₂ |
| 20 Giant great Mel | 50 Give an edge | 76 ____ Ababa | 98 Bowery boy? | 117 Martinique mount | 139 <i>Addams Family</i> pet hand |
| 21 Early predecessor of Zubin | 51 Modeling asset | 77 Drafted | 99 Composer Charles | 122 <i>Please Don't Eat the Daisies</i> pet | 141 Appraise |
| 22 Auto engineer Rudolf | 52 <i>Power</i> player | 78 Greek major's study | 100 Victor Borge, e.g. | 123 Learned | 143 Steakhouse order |
| 23 Vase arrangements | 53 Swanky | 80 Marshals the troops | 101 Howie Long and Mark Gastineau | 124 "La plume de ____" | 144 Comic Jay |
| 31 "Place" place | 54 Radar reflection | 81 Enliven | 103 Indian soldier | 125 Conspicuous | 147 Buntline and namesakes |
| | 55 Straight up | 82 Rainbow, for one | 104 Ship that sailed to Colchis | 126 Eagle, e.g. | 149 (Not my spelling) |
| | 56 Shack material | 83 Railroad branch | | 127 Pump datum | 151 Court ruling? |
| | 58 They may be set | | | | 152 Thrive, Rx-style |
| | 60 Manuscript heading | | | | |
| | 61 Lament | | | | |

In order to make ends meet, a lot of people these days are working two jobs. And while the jobs may not be related, sometimes the names are. Take an example. One person below has a daytime job as a REWRITER (sign # 1). To save money, he doesn't have a different sign for his moonlighting position. He just puts the sign fragment POR (at the bottom of the page) over the WRI to show his second job: REPORTER.

Each of the other names of daytime jobs below likewise can be converted into the name of a nighttime job. How many of the conversions can you deduce? Note: The nighttime letters can cover the beginning, middle, or end of the daytime sign. Each sign fragment always covers up the same number of letters, unless it's at the start or end of the word, in which case it may extend farther.

ANSWERS, PAGE 54

Daytime Signs

- | | | |
|-----------------------|-----------------------|-----------------------|
| 1. REWRITER | 2. MORTICIAN | 3. CARETAKER |
| 4. BUTLER | 5. TINSMITH | 6. DISPATCHER |
| 7. LEGISLATOR | 8. PHYSICIAN | 9. DAIRYMAN |
| 10. BASSOONIST | 11. BOOKBINDER | 12. GLASSMAKER |
| 13. ARCHIVIST | 14. FISHERMAN | 15. ENGINEER |
| 16. ACTUARY | 17. BALLPLAYER | 18. LOCKSMITH |

Nighttime Fragments

DRE	TEC	BEAU	CHER	ST	RICK
CART	RAV	TRAN	PENT	FER	OGC
WEAT	BLA	POR	RESS	KEEP	GU

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Each of the other names of daytime jobs below likewise can be converted into the name of a nighttime job. How many of the conversions can you deduce? Note: The nighttime letters can cover the beginning, middle, or end of the daytime sign. Each sign fragment always covers up the same number of letters, unless it's at the start or end of the word, in which

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ENGINEER

16. **ACTUARY**

17. **BALLPLAYER**

18. **LOCKSMITH**

Nighttime Fragments

DRE

TEC

BEAU

CHER

ST

RICK

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RAV

TRAN

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See-Shore Jigsaw

BY SUNNY BURNS

☆☆

Sometimes it's hard to find your blanket when you come back from a swim on a crowded day at the beach. The images at the right are also hard to find. They are pieces of the large beach scene below, removed from their context and enlarged—but not all to the same scale. After combing the beach, how many of these images can you locate in the large picture?

ANSWERS, PAGE 60

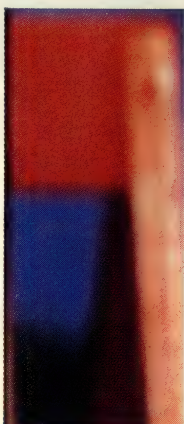




1



4



5



2



3



6



7



8



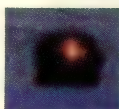
9



10



11



12



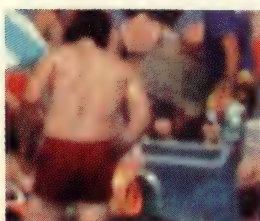
13



14



15



16



17



18



19



20

PLAY

AT THE

PLATE

AN UMPIRING QUIZ THAT
TOUCHES ALL THE BASES

☆☆

The next time you scream "Kill the ump" because you think he blew a call, consider this: Earning a job as a major league umpire just may be tougher than making the roster of the Pittsburgh Pirates. If you don't believe it, take this sample umpiring exam, given at the Joe Brinkman Umpire School in Cocoa, Florida, one of three such schools in the U.S. To be considered for a shot at the bigs, men in blue must graduate from one of these schools. And to graduate, they must demonstrate their knowledge of the arcane baseball rule book.

Some may think the test fair, others foul. But the rule applications are so out of the ordinary, casual fans and experts alike will start with two strikes against them. Play ball!

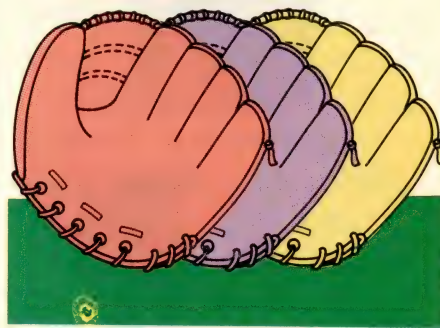
ANSWERS, PAGE 57



- 1 A pitcher may wear a colored glove other than white or gray.
☐ True ☐ False
- 2 A catcher may wear a first-baseman's mitt behind the plate.
☐ True ☐ False
- 3 An outfielder may wear a first-baseman's mitt in the outfield.
☐ True ☐ False
- 4 A batted ball goes sharply and directly from the bat off the catcher's mitt, strikes the umpire in the mask, and is caught by the catcher before touching the ground. This is
(A) a foul tip
(B) a foul ball
- 5 On a foul tip, the ball is dead.
☐ True ☐ False

6 In the top of the first inning, the visiting team jumps off to a six-run lead, when the pitcher is due to bat with a runner on second and one out. The manager feels that he wants to save his starting pitcher for another game, since he already has a comfortable lead, so he decides to pinch-hit for his pitcher. Is this legal? Why?

7 A pitched ball hits the sleeve of the batter's uniform but does not hit the batter himself. The umpire should award the batter first base.
☐ True ☐ False



8 A balk can be called on a pitcher while no runners are on base.
☐ True ☐ False

9 If no announcement of a substitution is made, the substitute shall be considered as having entered the game as follows:

(A) Pitcher, when he takes his place on the pitcher's plate

☐ True ☐ False

(B) Batter, when he steps into the batter's box

☐ True ☐ False

(C) Fielder, when he reaches the position of the man replaced

☐ True ☐ False

(D) Runner, when he takes the place of the runner replaced

☐ True ☐ False

10 If the umpire determines that the pitcher is intentionally pitching at a batter, the umpire should
(A) first warn the pitcher and his manager, and remove the pitcher from the game if the offense is repeated
(B) immediately remove the pitcher from the game

11 If the coach causes the pitcher to balk with a runner on third base by hollering "Time," the umpire should

(A) ignore the balk and remove the coach from the game

(B) allow the balk and remove the coach from the game

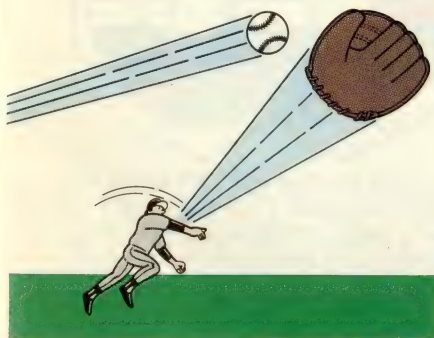
(C) ignore the balk only

- 12** There is one out and a runner is on first base. From the rubber, the pitcher steps toward first base and feints a throw. This is a balk.
☐ True ☐ False

- 13** There is one out and runners are on second and third. The batter hits a ground ball to the third baseman, who gets the runner in a rundown between home and third. The runner eludes the rundown and gets back to third safely. Meanwhile, the runner from second advanced to third and is occupying third when the original runner returns. Both runners are tagged while on third base. Who is out?

- 14** The three-two pitch to the batter is a wild pitch for ball four. The batter-runner sprints for first but sees he has no chance to advance to second, so he overruns first base. Is he allowed to overrun first in this situation, or can he be put out by being tagged?

- 15** There is one out, and runners are on first and third. The second baseman intentionally drops a line drive.
 The ball is dead ☐ True ☐ False
 The batter is out ☐ True ☐ False



- 16** A glove thrown at a fair batted ball has to touch the ball before the umpire awards bases.
☐ True ☐ False

- 17** After his pitcher has walked two batters straight, the manager decides to go out to the mound to talk to him. The pitcher gets behind the next batter three to zero, when the manager decides to go out to the mound to bring in a relief pitcher.
 (A) The manager can legally go out to the mound.
☐ True ☐ False
 (B) The manager cannot legally go out to the mound, but he can change his pitcher from the dugout by informing the umpire.
☐ True ☐ False



- 18** What is the penalty for a pitcher who applies a foreign substance to the ball, expectorates on the ball, either of his hands, or his glove, defaces the ball, or delivers a shine ball, spitball, mud ball, or emery ball for the first time in the game?

- 19** There are no outs, a runner is on second base, and there is a one-two count on the batter. On the next pitch, the umpire determines that the pitcher delivers a spitball, but the batter hits the pitch for a single, which scores the runner. According to the rule book, the umpire should
 (A) warn the pitcher and allow the single and the run
 (B) eject the pitcher and allow the single and the run
 (C) warn the pitcher, return the runner to second, and call a ball on the batter
 (D) warn the pitcher, put the runner on third, and call the pitch a ball
 (E) allow the single and the run and ignore the infraction since all runners advanced at least one base

- 20** The pitcher balks attempting to pick a runner off first and throws the ball into right field. The runner advances all the way to third but missed second. The defense throws the ball to second and appeals to the umpire.

- (A) The runner is out
 (B) The runner is returned to second since he was entitled to second without liability to be put out

- 21** A thrown ball strikes a photographer in the back while he is running away from the ball. The ball is dead.
☐ True ☐ False

- 22** The score is 5 to 4 in favor of the visiting team in the middle of the seventh inning. In the bottom of the seventh inning, the home team scores two runs to take a 6 to 5 lead. Before the bottom of the seventh can be completed, rain forces the umpires to call the game. What is the final score?

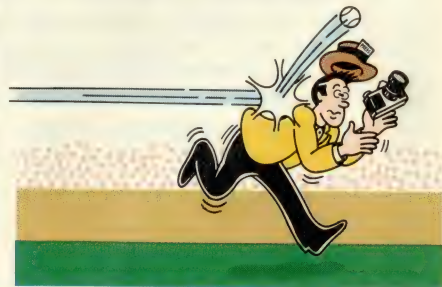
- 23** It is legal to have four outfielders and only three infielders in addition to the pitcher and catcher.
☐ True ☐ False

- 24** What is the penalty if a catcher stands with both feet out of the catcher's box before the pitcher releases the ball during an intentional base on balls?

- 25** To start the game, Baker comes to bat in place of proper batter Abel. The umpire checks his lineup card and, to avoid confusion before a pitch is thrown, tells the team's manager. The umpire has done the proper thing.
☐ True ☐ False

- 26** If the pitcher is moved to another defensive position and a new pitcher enters the game to pitch,
 (A) the original pitcher bats for the replaced defensive player; the new pitcher's name is entered below the line, and the team retains its designated hitter
 (B) the original pitcher must bat in the designated hitter's spot, and the new pitcher in the replaced fielder's spot
 (C) the original pitcher must bat in the replaced fielder's spot, and the new pitcher in the designated hitter's spot
 (D) the manager has his choice of where he wants his two pitchers to bat

- 27** With a zero-two count on him, the batter steps back out of the batter's box while the pitcher is in his windup. The pitcher continues to pitch anyway, and throws a pitch that does not enter the strike zone. What should the umpire call?



- 28** The batter refuses to take his position in the batter's box. The umpire tells the pitcher to pitch. The pitcher throws an obvious ball. It is legal for the umpire to call it a strike even though he knows it is a ball.
☐ True ☐ False

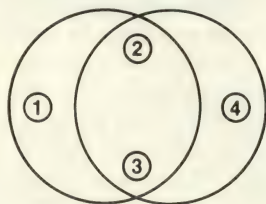
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MATHEMATICAL PUZZLES

GROUP THEORY, RUBIK'S CUBE AND THE AVENGER

When you study the ways you can rearrange objects, you're using a branch of mathematics called group theory. Group theory has a surprisingly enjoyable use in solving puzzles like Rubik's Cube that involve reordering pieces. And as often happens in mathematics, learning the notation gets you halfway to the solution.

Imagine two circles that overlap as shown. Either circle may be rotated clockwise or counterclockwise. The numbers 1 through 4 move with the circles. We can use the symbols L and R for clockwise turns of the left and right circles, and L^{-1} and R^{-1} for counterclockwise turns.



Turning the left circle one-third of a turn clockwise moves 1 to 2's place, 2 to 3's place, and 3 to 1's place. This is called a *cycle*, and is written: $(1, 2, 3)$.

Notice how each number goes to the place of the number following it, and the last number goes to the first number's place. Since the numbers form a loop, the cycle could be written $(2, 3, 1)$ or $(3, 1, 2)$ as well. But it's usual to start with the lowest number.

So $L = (1, 2, 3)$. And similarly, $R = (2, 4, 3)$.

★ **Problem #1:** What are L^{-1} and R^{-1} ? (Answers to problems are on page 54.)

What happens when we combine two moves? Move the left circle clockwise, and then the right circle counterclockwise. We can write it like this: LR^{-1} . How does this reorder the numbers?

To combine L and R^{-1} , start by writing out the moves as in the first two columns below. (Since the L move doesn't move the 4, we write " $4 \rightarrow 4$ " in the L

column to mean that the 4 stays where it is. The same thing is true of the 1 in the R^{-1} column.)

L sends 1 to 2, and then R^{-1} sends whatever is at 2 to 3, so the combined move LR^{-1} sends 1 to 3. Do this for the other numbers as well to get the third column below.

L	R^{-1}	LR^{-1}
$1 \rightarrow 2$	$2 \rightarrow 3$	$1 \rightarrow 3$
$2 \rightarrow 3$	$3 \rightarrow 4$	$2 \rightarrow 4$
$3 \rightarrow 1$	$1 \rightarrow 1$	$3 \rightarrow 1$
$4 \rightarrow 4$	$4 \rightarrow 2$	$4 \rightarrow 2$

Finally, write the third column as a set of cycles: $LR^{-1} = (1, 3)(2, 4)$. This means that LR^{-1} produces two cycles: one switches 1 and 3; the other switches 2 and 4. You can check this by moving counters around on a table to see why it works.

Actually, it's easy with a little practice to combine cycles without writing out all the steps. Just think to yourself, "1 goes to 2, which goes to 3," and write down "1, 3." Then think, "3 goes to 1," which stays at 1," which closes the cycle, so you draw the parentheses around it. Be sure you check all the numbers so that you don't miss any cycles.

★ ★ **Problem #2:** Find the cycles made by $L^{-1}R$.

A series of one or more moves is called a *process*. You can combine two processes of any length the same way you combine single moves.

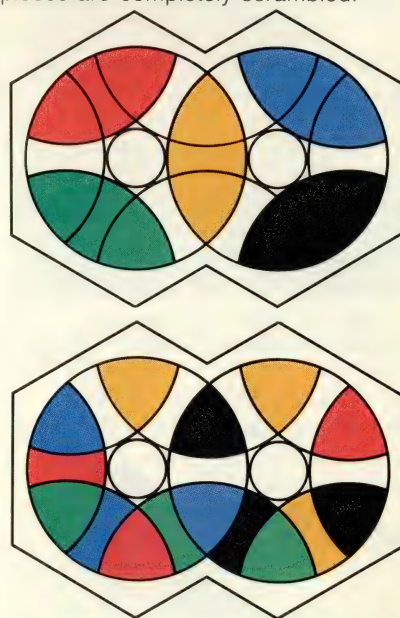
For example, $LR^{-1} = (1, 3)(2, 4)$, and $LR = (1, 4, 3)$. You can find $LR^{-1}LR$ by combining the cycles as before.

LR^{-1}	LR	$LR^{-1}LR$
$1 \rightarrow 3$	$3 \rightarrow 1$	$1 \rightarrow 1$
$2 \rightarrow 4$	$4 \rightarrow 3$	$2 \rightarrow 3$
$3 \rightarrow 1$	$1 \rightarrow 4$	$3 \rightarrow 4$
$4 \rightarrow 2$	$2 \rightarrow 2$	$4 \rightarrow 2$

★ **Problem #3:** Write $LR^{-1}LR$ in cycles. What shorter process gives the same cycle or cycles?

★ ★ **Problem #4:** What three-move process is equal to $(1, 4)(2, 3)$? There are four answers to this one.

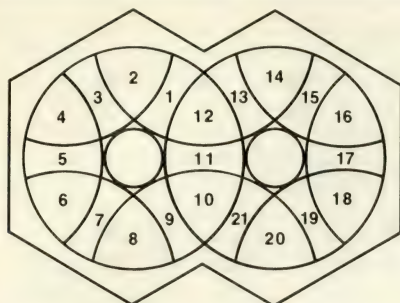
This simple notation can be used to solve harder puzzles, too. The Avenger is a new puzzle invented by Douglas Engel, of Englewood, Colorado, that's a larger version of our four-number puzzle. It contains 21 pieces arranged in two intersecting circles. The pieces come in two shapes, triangular "stones" and narrow, four-sided "bones." You can turn a circle in either direction, and after just a few turns the pieces are completely scrambled.



To solve the Avenger we have to expand our notation a bit. We'll use L to mean a one-sixth clockwise turn of the left circle, and L^{-1} for a counterclockwise turn. (You have to turn a circle one-sixth of a turn, or some multiple of one-sixth, so that the pieces are lined up to let the other circle turn.)

A two-sixths clockwise turn is LL or L^2 for short; a two-sixths counterclockwise turn is $L^{-1}L^{-1}$, or L^{-2} for short. A three-sixths turn (halfway around) is L^3 . R , R^{-1} , R^2 , R^{-2} , and R^3 stand for the corresponding moves on the right circle. Every one of the millions of possible scramblings of the Avenger is a combination of these ten moves.

Number the pieces as shown at the top of the next page. An L move produces two cycles, so we can write: $L = (1, 11, 9, 7, 5, 3)(2, 12, 10, 8, 6, 4)$. Notice that stones (even numbers) always take the place of other stones; and bones (odd numbers) take the place of other bones. So every cycle will contain either odd numbers or even numbers, never both.



The equation for the R move is: $R = (10, 12, 14, 16, 18, 20) (11, 13, 15, 17, 19, 21)$. Combining the two gives: $LR = (1, 13, 15, 17, 19, 21, 11, 9, 7, 5, 3) (2, 14, 16, 18, 20, 10, 8, 6, 4)$. Compare the LR process with the following one: $L^{-1}R^{-1} = (1, 3, 5, 7, 9, 21, 19, 17, 15, 13, 11) (2, 4, 6, 8, 20, 18, 16, 14, 12)$.

Notice that many of the numbers occur in reverse order? That means the two processes, if combined, will cancel each other out for a lot of the pieces. For example, LR sends 13 to 15, and $L^{-1}R^{-1}$ sends 15 to 13. Combine the two, and 13 stays where it is.

The whole process is $LRL^{-1}R^{-1} = (1, 11, 21)(2, 12)(10, 20)$. Only seven pieces move; the rest stay where they are.

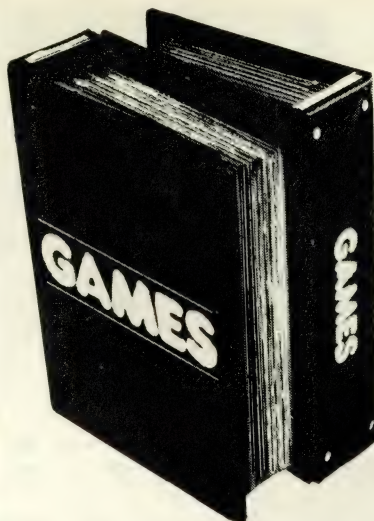
But we can do even better. Add this process to itself and the cycles of length two will cancel themselves out. The first time, for instance, 2 and 12 switch places; the second time, they switch back. So we get the process: $LRL^{-1}R^{-1}LRL^{-1}R^{-1} = (1, 21, 11)$.

Processes like this that switch only a few pieces are the key to solving the Avenger and puzzles like it. In fact, master this sequence of moves, and you're actually halfway to a solution.

★★★ Problem #5: A short way to write $LRL^{-1}R^{-1}LRL^{-1}R^{-1}$ is $(LRL^{-1}R^{-1})^2$. What is $(LRL^{-1}R^{-1})^3$? What cycles does it give?

Even a puzzle as complex as Rubik's Cube is just another variation of our simple four-number puzzle. The Cube's six rotating faces can be thought of as overlapping "circles." And though the Cube is a much more difficult problem than the ones we've been discussing, the same methods we've been using here can be used to solve it.

You know enough now to try solving the Avenger on paper even if you don't have one, but of course it's more fun if you do. The Avenger is \$8 postpaid from General Symmetrics, 2935 W. Chenango Ave., Englewood, CO 80110. There are two simpler variations of the Avenger available as well, and more difficult versions are planned.



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CARD GAMES

Mini GOLF

Number of Players

One or more.

Equipment

A standard 52-card deck, a small marker (to represent a golf ball), and paper and pencil (for keeping score).

Setup

Remove any three kings from the deck, then shuffle and deal the remaining 49 cards face up to form a 7x7 array. Place the marker on the remaining king, which represents the first tee.

The Golf Course

The first "hole" is the $\diamond A$, the second hole is the $\diamond 2$, and so on through the ninth hole (the $\diamond 9$). Holes 10 through 18 are the $\spadesuit A$ through $\spadesuit 9$. Each hole is also the tee for the next hole.

Hitting the Ball

The ball can be "hit" (i.e., moved) horizontally, vertically, or diagonally. The distance (in cards) the ball moves is determined by the two cards on either side of the ball, and at right angles to the direction of movement. The card with the lower number is subtracted from the higher; the king counts as 13, queens as 12, jacks as 11, numbered cards as themselves, and aces as 1. If the result of the subtraction is 6 or more, either 5 or 10 is subtracted, as necessary, to bring the result to a number less than 6.

If both cards are the same number, the result is 0. But instead of no move, this allows the player to choose any length move from from 1 to 5 cards in the given direction.

The ball may not be moved in a direction that would take it "out of bounds"—that is, past the last card in the line of movement.

If, because the ball is at the edge of the layout, there is only one card at right angles to the direction of movement, the other number is taken as 0 to determine the distance the ball is hit.

Example of Play

At the start of a game, in the card layout above, the ball is on the $\clubsuit K$, and the

$\heartsuit 3$	$\clubsuit 7$	$\diamond J$	$\heartsuit J$	$\spadesuit 9$	$\spadesuit A$	$\spadesuit 3$
$\spadesuit J$	$\spadesuit 2$	$\heartsuit Q$	$\clubsuit 8$	$\diamond 7$	$\heartsuit 6$	$\spadesuit 10$
$\spadesuit 6$	$\clubsuit 9$	$\clubsuit 10$	$\diamond 5$	$\clubsuit 3$	$\heartsuit 10$	$\diamond A$
$\diamond 4$	$\clubsuit 6$	$\clubsuit K$	$\spadesuit 4$	$\spadesuit Q$	$\heartsuit 7$	$\heartsuit 9$
$\diamond 10$	$\diamond Q$	$\clubsuit 5$	$\clubsuit 4$	$\heartsuit A$	$\diamond 6$	$\heartsuit 8$
$\spadesuit 7$	$\spadesuit 5$	$\heartsuit 5$	$\diamond 2$	$\clubsuit 2$	$\diamond 9$	$\clubsuit Q$
$\clubsuit A$	$\diamond 3$	$\heartsuit 4$	$\spadesuit 8$	$\diamond 8$	$\heartsuit 2$	$\clubsuit J$

player must maneuver it to the $\diamond A$. The cards above and below the $\clubsuit K$ are the $\clubsuit 10$ and $\clubsuit 5$. Since the difference is 5, the ball can't be moved horizontally left or right (it would go out of bounds). In one diagonal direction, the cards are $\clubsuit 9$ and $\clubsuit 4$; these also have a difference of 5, and would put the ball out of bounds.

Movement is possible in the other directions. The $\diamond Q$ and $\diamond 5$, in the other diagonal direction, have a difference of 7, which is reduced by 5 to make a difference of 2; the ball could therefore move two cards up and to the left, or two cards down and to the right. Alternatively, the $\clubsuit 6$ and $\spadesuit 4$ allow the ball to move two cards straight up or down.

The best way to play the first hole is to move down two cards to the $\heartsuit 5$. From there, the $\diamond Q$ and $\spadesuit 8$ allow a move of four cards diagonally up and to the right, landing on the $\spadesuit 10$. With the $\heartsuit 6$ to the left and no card to the right, the ball moves down one card ($6-5=1$) onto the $\diamond A$, completing the hole in a

total of three strokes.

For the second hole, the best play is to move diagonally down to the $\heartsuit 7$, then left four cards to the $\clubsuit 6$. The $\diamond 10$ and $\clubsuit 10$ allow a choice of distance in the diagonal running from the $\spadesuit 6$ to the $\diamond 8$, and a move of two cards ends on the $\diamond 2$. Again, the total is three strokes.

The third hole can be played in four strokes, as follows: diagonally left and up to the $\spadesuit 6$, diagonally up again to the $\spadesuit 2$, down 1 to the $\clubsuit 9$, and down another 4 to the $\diamond 3$.

Winning

In a solitaire game, a player wins if his or her score—the total number of strokes taken on all 18 holes—is less than or equal to par. Par on each hole is 3, for a total of 54.

Variation with Rebounds

For a faster game, a movement is allowed even if it is greater than the number of spaces in that line. Instead of going out of bounds, the ball bounces

back onto the course.

If the ball is moving horizontally, vertically, or diagonally into a corner, it bounces back in the direction from which it came. If the ball is moving diagonally and hits the edge other than at a corner, it goes off in the other diagonal direction.

Par for this variation is only two strokes per hole, for a total of 36 for the 18 holes.

Example of Play with Rebounds

Using the same grid as before, start at the ♣K and move five cards diagonally up and to the right. The ball moves over the ♦5, ♦7, ♠A, and ♠10, and lands on the ♥10. The second stroke is one card to the right onto the ♦A.

For the second hole, move straight down and bounce off the bottom, ending the five-card move on the ♣Q. A move of three cards to the left then brings the ball to the ♦2.

To start the third hole, move three cards straight up to the ♦5. The two queens allow a choice of distance in moving diagonally down and left; choose 4 and bounce at the ♠7 to reach the ♦3 in two strokes.

For a More Challenging Game

Instead of moving any distance from 1 to 5 (in the appropriate directions) when the ball is between two cards of the same number, players can increase the difficulty of the game by allowing no movement in such directions.

Maximum Strokes

It rarely happens that a hole cannot be reached. But a player who feels that one is impossible may elect to move directly to the hole and take a score of 6 on that hole. This applies regardless of which variation is being played.

Two or More Players

Rules are as in the solitaire game, with the following changes.

Each player uses a distinct marker for a ball and has pencil and paper. Working to a time limit (30 seconds is recommended), each player writes down his or her first move. The moves are exposed simultaneously, and the markers are moved. If a player mistakenly indicates a space that cannot be reached, or fails to write down a space, his or her marker stays in its original location, but the player adds one stroke to his or her total for the hole. As players reach a hole, they drop out of play until all players have reached that hole. After 18 holes, the player with the lowest number of strokes is the winner.

EVENTS

(CONTINUED FROM PAGE 7)

GAME CONVENTIONS

• Over 1,500 fans of Squad Leader, Risk, role-playing events, and miniatures will converge at Neo-Vention VI, June 5-7, at Kent State University, in Kent, Ohio. A game auction and art show will also take place. Prizes will be awarded. Entry fee is \$15 for preregistration or \$20 at the door. Contact: NEO-GS, P.O. Box 412, Cuyahoga Falls, OH 44222-0412.

• CampCon 5, which will be held June 6, in Astoria, Illinois, will feature role-playing games such as Star Trek, Champions, and D & D, and a variety of board games as well. Prizes will be awarded. Entry fee is \$2. Contact: Kevin B. Sager, Box 833, Astoria, IL, or call (217) 322-3396.

• E. Gary Gyga, co-creator of Dungeons & Dragons, will be the guest of honor at Glathicon '87, June 19-21, in Evansville, Indiana. Activities include miniatures competition, art show and auction, seminars, a masquerade, and many gaming tournaments. Entry fee is \$15. Contact: Evansville Gaming Guild, P.O. Box 15414, Evansville, IN 47716, or call (812) 853-7850.

VIDEO GAMES

The 100 best video games of all time have been selected for the 1987 Video Game Masters Tournament, a nationwide competition, June 26-28. Contestants can play their favorite video game in one of the 330 Bally's Aladdin's Castle amusement centers in the U.S. The highest score will be submitted for the 1988 *Guinness Book of World Records*. Entry fee is \$4. Contact: U.S. National Video Game Team, P.O. Box 1558, Torrance, CA 90505, or call (816) 471-2031.

JULY

DAY OF THE MONTH: JULY 1-31

"National Anti-Boredom Month" encourages people to avoid boredom in their lives. Some tips: avoid hype, avoid repetition, learn new stuff, have a wish list, be an explorer, and don't use age as an excuse not to do something. The Boring Institute is sponsoring a contest for The Most Boring Local News Event clipped from a local, daily newspaper. The winner will receive an official "Boring Award Certificate" and a copy of the Institute's new book, *Boring Stuff: How To Spot It, How To Avoid It*. Entries must include a 3-by-5-inch card with your name and address. Deadline is June 1. Send to: Contest, The Boring Institute, Box 40, Maplewood, NJ 07040.

BACKGAMMON

"Chic" is probably the best way to describe this year's World Championship Backgammon Tournament, July 6-12, in Monte Carlo, Monaco. (Flight leaves July 4 from Kennedy Airport, NY, and returns July 13.) Participants in champion, intermediate, and novice divisions of play will enjoy this black-tie affair, which includes two cocktail parties and a formal dinner-dance. Entry fees range from \$100 to \$500. Contact: Les Boyd, International Backgammon Assoc., 1300 Citrus Isle, Ft. Lauderdale, FL 33315, or call (305) 527-4033.

FIFTIES FESTIVAL Dig out those poodle skirts and slick back those D.A.s for the 1950s Festival, July 14, at the Pacific Avenue Mall in Wildwood, New Jersey. This celebration of the fabulous fifties will feature sock-hop music, strolling entertainment, and Hula Hoop, bubble-gum blowing, and jitterbug contests. Contact: Dept. of Tourism, P.O. Box 609, Wildwood, NJ 08620, or call (609) 522-1407.

JUGGLING Things will definitely be up in the air at the 40th International Jugglers Association Annual Convention, July 13-19, in Akron, Ohio. In addition to workshops and performances, the U.S. Nationals will be held for a \$1,000 prize and a trophy. Other contests are for street performances, juggling while running, and a juniors division. Contact: IJA, P.O. Box 29, Kenmore, NY 14217, or call (716) 876-5331.

TEDDY BEARS Bring your teddy bear to one of the largest gatherings of these cuddly critters at the All American Teddy Bears Picnic, July 18-19, at Peddler's Village in Lahaska, Pennsylvania. Festivities include teddy bear displays, parades, puppet shows, appraisals, restorations, and competitions. Over \$2,600 in cash prizes will be awarded in numerous categories including Best-Dressed, Great Couples, Most Patriotic, and Best Vintage bear. The finale will show all the bears in a picnic setting. Contact: Peddler's Village, Box 218, Lahaska, PA 18931, or call (215) 794-5306.

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GAMES & BOOKS

EDITED BY SCOTT MARLEY

BROADWAY

TSR, Inc.; around \$20

After playwright S. J. Perelman retired to a farm, he wrote of himself, "Perelman raises turkeys which he occasionally displays on Broadway."

In Broadway—the game—there are no turkeys. Three to six players (two is possible but much less fun) buy shares in eight

guaranteed box-office bonanzas, from *Tobacco Road* to *Hello, Dolly!*. When a show makes it to Broadway—the street—it begins paying off its investors, who keep it running as long as they can. When the last show finally closes, the richest player wins.

Players move their tokens by dice roll around the board's inner track, where they may buy shares in the various shows. Each show is at a different price; the

higher the share price the higher the potential profits.

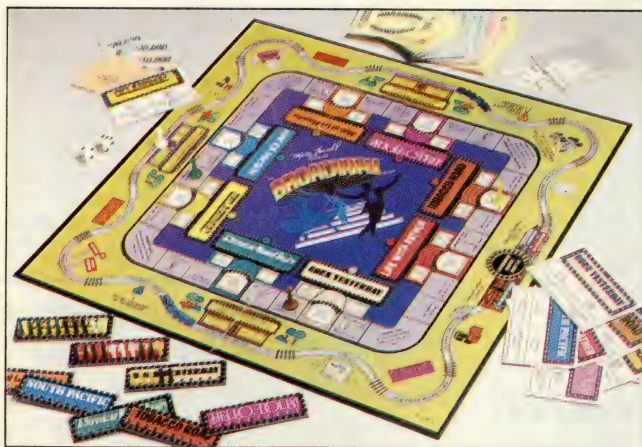
When all 10 of a show's shares are bought, the producer (owner of the most shares) takes it out of town on a tryout tour. Producers move to the outer track and immediately collect money from advance sales. This money—which belongs to the show, not its producer—can be used to pay fees incurred on the road.

If the show can't pay a fee, its producer must announce an "overcall," which means that the show's investors must pay the fee themselves, even if they have to sell their shares to raise the money. If a show makes it to Broadway without an overcall, the producer collects a nice personal bonus.

Each show's producer also gets 10 Broadway Theater Award (BTA) votes. These come into play in the final phase of the game, which begins when the last share has been sold.

In this phase, when players land on or pass the BTA space on the inner track, they remove their tokens from the board. When all the tokens are off, the producer of each show in turn rolls the dice. Certain numbers allow the show to stay open without penalty, but others require the producer and other investors to come up with cash or BTA votes if they want to keep it open—which they will usually want to do, not only to continue earning dividends but also to have a crack at the huge bonus paid to the last surviving show.

Broadway takes at least three hours to play, and we wish it took longer. Players are usually involved in several shows at once, and often have to make hard decisions about where their best interests lie and how to manage their limited funds. It's a game of nonstop action, a truly satisfying playing experience that we'll want to repeat often. —B. H.



BOOKS: WORDPLAY AND PUZZLES

The Atlantic Monthly Puzzle Book (David R. Godine, \$10) is the best book of cryptic crosswords ever. Is there anything else to say?

Regular GAMES readers already know Emily Cox and Henry Rathvon. This collection includes nearly all of their cryptic crosswords from the *Atlantic Monthly*, plus two constructed specially for this book.

Cox and Rathvon make bright, witty puzzles that are challenging yet not obscure: they rarely resort to uncommon words. Their clues are devilishly clever but always

fair. The clear introduction will get new solvers off to a good start.

The Champion's Strategy for Winning at Scrabble Brand Crossword Game, by Joel Wapnick (Stein and Day, \$8.95) has something for every Scrabble player. Novices will learn things like when to exchange their tiles, how to play the endgame, and what to do about the Q. Better players get tips on preparing for a tournament. And the most experienced can scratch their heads over 40 difficult and unusual positions.

Wapnick illustrates his points with anecdotes and actual game positions. Eight annotated games provide fascinating tours inside the

minds of top players. Was PULSAR a better play than PULI? Why did the expert play ON for only two points? Wapnick knows, and when you've finished this book, you'll know, too.

Simple Solutions to Rubik's Magic, by James G. Nourse (Bantam, \$2.95) is a good, easily followed guide to mastering those perplexing plastic squares. After you've linked the three rings, Nourse will show you how to make other shapes as well.

Puzzle Craft, by Stewart T. Coffin, (79 Old Sudbury Rd., Lincoln, MA 01773; \$12 postpaid) tells how to make 50 or so wooden puzzles, many designed by the author, and adds briefer descriptions of dozens more.

A tremendous variety of puzzles is included: ball and string puzzles, cube puzzles, burr puzzles, and others.

Coffin gives advice on practical matters like dealing with warp, choosing the right tools, and cutting the unusual holes and notches many of the puzzles require. He also talks about the history of wooden puzzles, and includes a bibliography. (Unfortunately, there have been few books on the subject, and most are now out of print.)

We've never seen a more informative book on wooden puzzles, and whether you make wooden puzzles, collect them, or just like to do them, you're sure to be fascinated. —S. M.



THE A-MAZE-ING LABYRINTH

Ravensburger; around \$20

The aMAZEing Labyrinth is a family game that sends two to four players on a scavenger hunt through a changing maze. Corridors separate and reconnect, and at any time a player may suddenly be stranded—or unstranded just as suddenly.

As always with Ravensburger's games, the equipment is attractive and well thought-out. The game is played on a shifting board of 50 sturdy maze cards. Sixteen of these cards are permanently attached to the board; the rest slide in rows between them.

At the start of the game, the 24 treasure cards are dealt out face down to the players. The board is randomly set up, leaving one maze card left over. To begin a turn, a player pushes the extra card into the maze at one of 12 places (marked with arrows); all the cards in that row are then shifted over one position. The card at the other end is pushed out of the maze, becoming the extra card for the next player.

After shifting the maze, a player moves any distance along connecting corridors. Each player tries to reach

all the items—such as a bag of gold, a dragon, or a map—on his or her treasure cards. Players look at their top cards, keeping them hidden from the opponents. On reaching the matching item on the board, a player shows the card, sets it aside, and looks at the next one in his or her hand. The first player to reach each item and return to his or her corner wins.

A word of advice: Don't be too obvious about which item you're heading for. If your opponents figure out you want, say, the lizard, they can use their turns to keep the lizard out of your reach. The more opponents in the game, the more important this is.

The Labyrinth plays fast and doesn't demand any deep thought. The maze shifts so often that long-range planning is impossible, anyway. But from turn to turn you'll find opportunities for clever plays that open long paths or wall an opponent in. Though the game is simple enough for children to enjoy, you may still be playing after they've gone to bed. —S. M.

THE PAWN

Rainbird Software; Firebird Licensees, Box 49, Ramsey, NJ 07446; for C-64, \$39.95; 64K Apple II series, Atari ST, Amiga, Macintosh, \$44.95

Until recently, English computer games could only intrigue us from afar—we couldn't play them because American hardware was incompatible. But now English software, adapted for American computers, has begun to arrive on our shores. If The Pawn is typical of the quality of interactive fiction we will be receiving, American adventurers have a lot to look forward to.

The Pawn is a witty, well-written, challenging adventure of the captive-princess/enchanted-world variety. The lady in question is only one of several objectives. The central puzzle is the metal wristband you find yourself wearing when, at the beginning of the game, you are transported willy-nilly to Kerovnia. You soon discover two crucial facts. One, the southern boundary of this world is a red line you can't cross if you're carrying any Kerovnian artifacts, such as the metal wristband. Two, there's no way to get the damn thing off your wrist.

Well, actually there *is* a

way. Kronos, the evil magician, tells you early in the game that only he can remove the wristband. He'd be delighted to help you—if, heh-heh, you first perform a small service or two. So begins your odyssey through a perilous world of odd characters: a wise-cracking horse who walks without legs, a guru given to significant but vague utterances, and a sad snowman who has trouble communicating but no trouble rebuilding himself.

To help you in time of need, the package includes a series of hints in code, which you can decode by typing them into the computer. Unfortunately, Commodore computers won't accept the longer codes, so Commodore owners get an extra challenge at no extra charge. Rainbird will correct this flaw in future copies of the game.

The Apple version is text-only; the Commodore and Atari versions include graphics. The text in all versions is identical, which means that the pictures, though superb, have no function in the game.

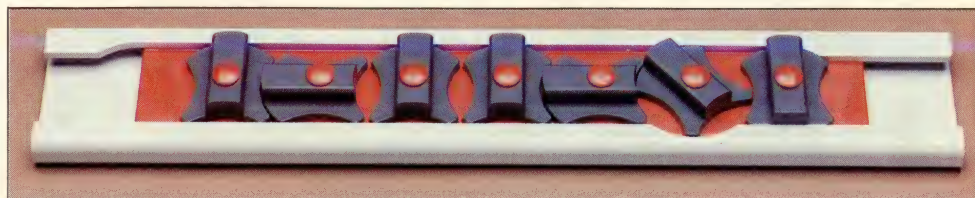
Don't forget: The Pawn was written in England and British spellings apply. If the computer doesn't understand "center," try "centre" instead. —B. H.

SPIN-OUT

Binary Arts Corp., 703 Timber Branch Dr., Alexandria, VA 22302; \$10 includes postage

Spin-Out looks hard at first. At second glance it seems impossible. Seven disks are attached to a slide, which the solver must try to remove from a case. Turning all seven disks sideways would release the slide, but

a disk can only turn when it is lined up with an indentation in the case—and the slide often won't move far enough to let you line up the disk you want to turn. What's more, turning a disk sideways locks its neighbor in place. Puzzle collectors will recognize Spin-Out as a version of the ancient Chinese ring puzzle, and it's the most elegant version we've ever seen. —S. M.



★ W I L D C A R D S ★

EDITED BY MIKE SHENK

IN OTHER WORDS COLLECTOR'S ITEM

Butterflies are not only some of the world's prettiest insects, they also have some of the world's prettiest names. Can you match each of the ways of saying "butterfly" (1-13) below with the appropriate language (a-m)?

1. *babochka*
2. *borboleta*
3. *chocho*
4. *farfalla*
5. *fjäril*
6. *lele waiupaka*
7. *mariposa*
8. *motyl*
9. *papillon*
10. *pillangó*
11. *Schmetterling*
12. *sommerfugl*
13. *vlinder*

- a. Dutch
- b. French
- c. German
- d. Hawaiian
- e. Hungarian
- f. Italian
- g. Japanese
- h. Norwegian
- i. Polish
- j. Portuguese
- k. Russian
- l. Spanish
- m. Swedish

—Josh Pachter



NUMBER PLAY CUBE STEAKS

If the digits of a certain three-digit number are added together, and the result is cubed, the final answer is the original number. What is the number?

—Karen Nimmons

TRIVIA ROLE CALL

Certain characters in the movies and on TV have turned up in a number of versions, quite often played by a number of different actors. Can you identify the role shared by the actors in each list below?

1. Sean Connery, George Lazenby, Roger Moore, Timothy Dalton
2. Bela Lugosi, John Carradine, Christopher Lee, Frank Langella, George Hamilton
3. Margaret Rutherford, Angela Lansbury, Helen Hayes
4. Johnny Weissmuller, Lex Barker, Jock Mahoney, Ron Ely, Christopher Lambert
5. Judy Garland, Diana Ross, Fairuz Balk
6. Warner Oland, Sidney Toler, Roland Winters, J. Carrol Naish, Peter Ustinov
7. John Barrymore, Raymond Massey, Basil Rathbone, Peter Cushing, Nicol Williamson, Nicholas Rowe
8. Douglas Fairbanks, Errol Flynn, Jon Hall, Richard Todd, Sean Connery
9. Austin Trevor, Tony Randall, Albert Finney, Peter Ustinov
10. Sandra Dee, Deborah Walle, Sally Field
11. Walter Abel, Don Ameche, Gene Kelly, Michael York
12. Dick Powell, Humphrey Bogart, James Garner, Elliott Gould, Robert Mitchum
13. Kirk Alyn, George Reeves, Christopher Reeve
14. Douglas Fairbanks, Tyrone Power, Clayton Moore, Guy Williams, George Hamilton, Alain Delon
15. Boris Karloff, Lon Chaney Jr., Glenn Strange, Peter Boyle
16. Charles Laughton, Trevor Howard, Anthony Hopkins
17. Lon Chaney, Charles Laughton, Anthony Quinn, Anthony Hopkins

—Donna Zelzer

WORDPLAY CITY STATES

We've removed all but two of the letters of each of the city names below—two letters which, by curious coincidence, form the post office abbreviation for that city's state. For example, the answer to number 1 is INDIANAPOLIS, Indiana. For how many of the other cities can you fill in the blanks?

1. I N _ _ _ _ _
2. _ _ _ _ N Y
3. _ O R _ _ _ _
4. _ _ _ _ A L _ _ _ _
5. H I _ _ _
6. _ _ _ _ _ W A _ _ _
7. _ _ _ _ N D _ _ _ _
8. _ _ _ _ A K _ _ _ _

—Stephen Sniderman



WORDPLAY

REST ORATION

We've taken 12 words and broken each into two shorter words (as RESTORATION might be broken into REST and ORATION). The resulting 24 words are presented in alphabetical order at right. Can you restore the original 12 words?

—Robert Gray

AGNES	HEN	PROSE
ARC	HERE	RAIN
BAN	HIVES	REAP
CEMENT	I	REST
CHAMP	JOIST	SLANDER
CUTE	NOW	VIE
GARISH	PEAR	VINE
HEAT	PRONOUN	WED

NUMBER PLAY

SMALL CHANGE

On the treeless planet of Glosia, the currency consists of florins, ecus, and ducats. *One florin is worth two ecus, and one ecu is worth two ducats.* Since there is no paper, there is no paper money, and the people of Glosia have to carry coins everywhere. Autarch Evariste VII, being immensely rich, must wear bloomers with enormous reinforced pockets to hold his money.

One day, the Autarch realizes that there is a new trend in Glosian fashion: Chic men and women wear only small pockets. Evariste VII, not one to be left behind by the great movements of style, decides to institute a drastic economic reform, by enacting a strange law: *One ducat is worth two florins!*

The people of Glosia are ecstatic. With the new system, one may have a fortune in one's pockets, and yet never carry more than three coins! One can be rich *and* fashionable at the same time! For example, if you own eight ecus, you can go to the bank and trade them in for four florins. These can be traded again, for two ducats, which equal one ecu, which will certainly fit in your pocket!

When you realize the trades that can be made in either direction, you can see how the Autarch's brilliant legislation will abolish poverty forever!

1. The Autarch trades his coins at the bank, according to their official value, with the object of having as few coins as possible in the tiny pocket of his slinky new pants. He starts with 1000 florins. What does he end up with?

2. Prince Enbel has one ducat. He buys a toastereo (a popular appliance which, unfortunately, does not make coffee), costing 50 ecus. If he is given the fewest coins possible, how much change does he get?

3. Princess Lisa has one ecu. She wins the the first prize in a *Names* magazine contest. The prize is one ducat, one ecu, and one florin. She now has four coins, but they won't fit into her pocket. What does she have after trading them in to get as few coins as possible? (If she had won second prize, she would have won a trendy T-shirt with the *Names* logo, and no pockets at all!)

4. Sol Grundy has no money. He gets a job at the toastereo store, earning one florin per day, seven days a week. Since his pockets are fashionably small, he trades his money as often as possible, in order to have as few coins as possible. If he starts his new job on Monday, how much does he have each day of the week? And the next week? (Assume he doesn't spend any money.)

—Henri Picciotto

AUNT HILDEGARDE

AT AUNT WILHELMINA'S

The last time we saw Aunt Hildegard, she'd been to visit Aunt Rhoda and had arrived back home liking Tauruses but not Capricorns, pica but not elite, and chiropractors but not osteopaths. That's because Aunt Hildegard prefers things that have the same word structure as the relative she's seen most recently. And RHODA, TAURUSES, PICA, and CHIROPRACTORS are all words that begin with the name of a Greek letter.

Most recently, Aunt Hildegard has been to see Aunt Wilhelmina, and now she has a brand new list of likes and dislikes. Can you figure out what's guiding her preferences now?

She likes HEAVY METAL, but not CLASSICAL MUSIC.

She drinks WHITE WINE, but never BORDEAUX.

She visits HAWAII, but stays away from COLORADO.

She drives a MAXWELL, but not a STUDEBAKER.

She gazes at the MILKY WAY, but won't look at SATURN'S RINGS.

She'd sooner play a FEMME FATALE than the HEROINE.

She watches THE THIN MAN, but avoids CASABLANCA.

She prefers WEALTH to POVERTY.

She listens to LIZA MINNELLI, but not BARBRA STREISAND.

—David Diefendorf

TEASERS

PATRIOTIC SOUNDS

The five place names below may sound vaguely patriotic to Americans. Can you tell why?

OMAHA
CEYLON
CANBERRA
YUGOSLAVIA
SEATTLE

—Bob Stanton



LOGIC

INFORMATION GAP

Poser, meeting his puzzler friends Ponder and Pointer, proposed a game: "I'll think of somebody we know—Abel, Alma, Adam, Bella, Bonnie, or Brad—and you may deduce who it is by asking questions to which I'll answer either 'yes' or 'no.'"

Pointer jumped right in, asking

three questions:

1. Does the name start with A?
2. Is it a woman?
3. Is this person over 30?

Poser duly answered the questions, and Ponder piped up first: "The only age I know is one of the women's, but I know for sure who it is!"

Pointer, sounding wounded, replied: "Even knowing that Adam and Bonnie are both over 30, I was unable to deduce who it is without Ponder's remark."

Who was Poser thinking of, and what were the answers to Pointer's questions?

—Virginia McCarthy

TEASERS

BUILDING BRIDGES

"Watchful linguists (specifically you untiring GAMES sleuths) should detect that there's some enigma about this sentence—easy, yet tricky."

Just what *is* unusual about the above sentence, anyway?

—R. L.

TOUGH NUTS

ONE TO TEN

To write the numbers ONE to TEN inclusive, you must use the digit O exactly ONE times.

Can you make the preceding sentence true by replacing O, N, E, and T each with a different digit from 0 to 9?

—Guney Mentis

FOR THE RECORD

GREASE-SPEAK

"Welcome to the Greasy Spoon, where we print all the items on our menu in diner lingo. But I bet a smart cookie like you can translate enough of 'em to order some eats. So what'll you have? And please order by number."

How many items can you translate into everyday English?

BREAKFAST

1. Cluck & Grunts
2. Shake & Bake a Cowboy
3. Butter Brown
4. Stack (Short or Long)

LUNCH

5. One from Manhattan
6. Noah's Boy with Murphy Carrying a Wreath
7. Coney Island
8. 1-2-3 and a Splash

DESSERTS

9. Eve with a Lid On
10. Monkey Pie
11. Shivery Liz

BEVERAGES

12. Draw One
13. Blonde & Sweet
14. Squeeze One
15. One on the City

—Barbara Stein

WORDPLAY

COVER-UP

Imagine the four 3×3 grids shown as separate slips of paper. How can they be placed in the larger square (with some overlapping) to form a word square, with five words read-

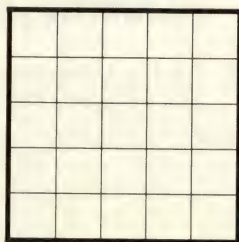
ing across and five different words reading down? Letters covered by an overlapping grid will not be part of the finished square.

—M. S.

O	V	A
D	E	L
E	R	E

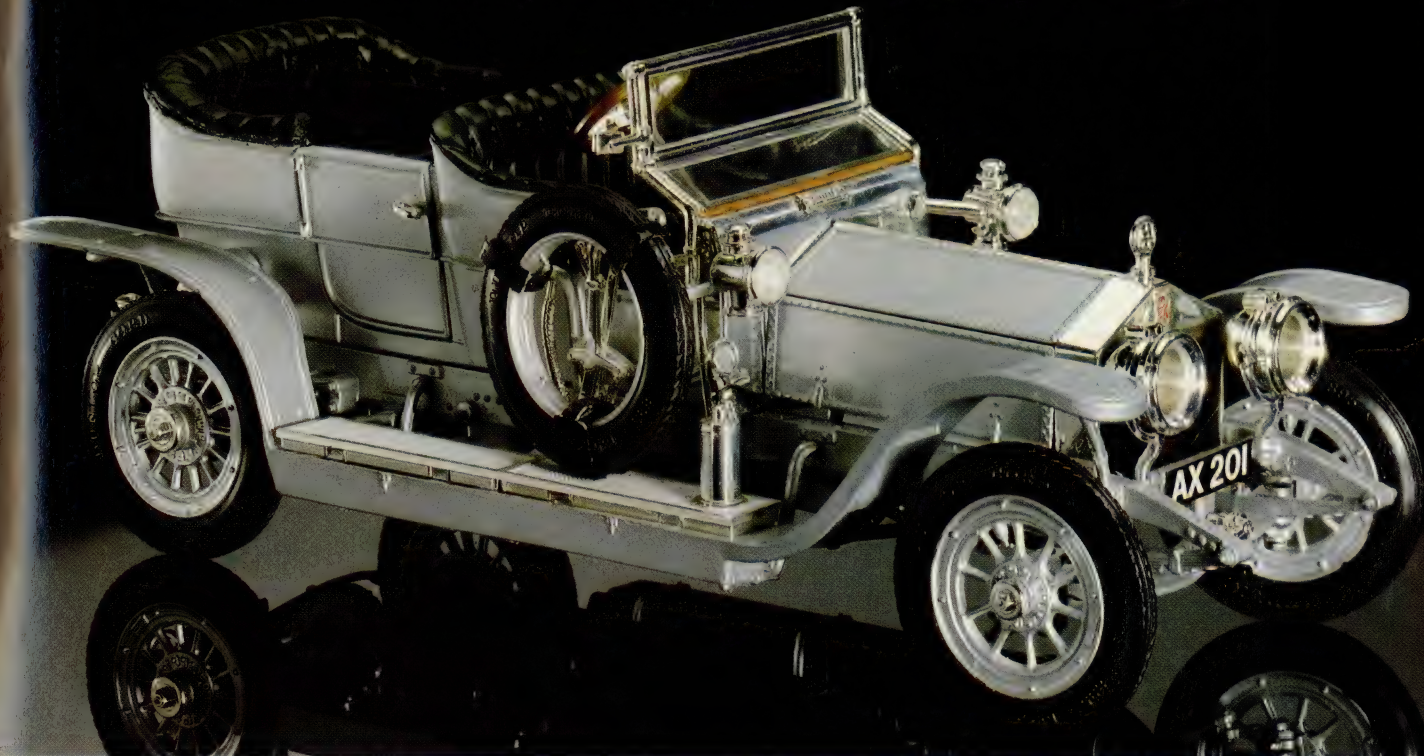
S	T	E
P	A	N
A	P	T

A	R	T
P	E	R
P	L	Y



E	R	A
R	I	S
O	C	T

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City, State, Zip _____

ANSWERS

4 YOUR MOVE

Short Quiz

The word is LONG (PROLONG, BELONG, OBLONG).

Order in the Courts

From left to right, the cards are: the diamond ace, the club queen, the spade jack, and the heart king.

Punctuation Folk

The faces are as follows:

1-c, winking face; 2-f, Mr. Bill; 3-d, face with a black eye; 4-e, President Reagan; 5-b, hungover face; 6-h, Gummy; 7-a, face sticking tongue out; 8-g, Mr. Ed.

Greater Recall

149522

x 5

747610

Letters From Rome

The names are all cities in Italy, as follows: 1-Venice; 2-Pisa; 3-Milan; 4-Naples; 5-Genoa.

25 WORD WAR I

- | | |
|-------------|--------------|
| 1. Warsaw | 8. Warrant |
| 2. Warning | 9. Warmth |
| 3. Warren | 10. Warner |
| 4. Wardrobe | 11. Warthog |
| 5. Warbler | 12. Warwick |
| 6. Warhol | 13. Warden |
| 7. Warlock | 14. Warranty |

34 DOUBLE CROSS

- | | |
|--------------------|--------------------|
| A. WISCONSIN | L. TUT-TUT |
| B. MYTH | M. HOBBY-HORSE |
| C. AGNES OF GOD | N. EDITH HEAD |
| D. NICK NOLTE | O. LIGHT IN AUGUST |
| E. CHANGE OF HEART | P. ADDAMS |
| F. HUGH HEFNER | Q. SYNTHESIS |
| G. ESTES | R. TAMPA BAY |
| H. STOWAWAY | S. LIDDY |
| I. TAHITI | T. IN THE HEAT |
| J. ETHICIST | U. OF THE NIGHT |
| K. ROYAL GORGE | V. NIMBUS |

On his eighty-fifth birthday a back-bencher in the House, assuming that Churchill was out of earshot, told the MP beside him: "They say the old man's getting gaga." Without turning, Winston said: "Yes, and they say he's getting deaf, too."—W(illiam) Manchester, *The Last Lion*

28 CRYPTO-CHANGE!

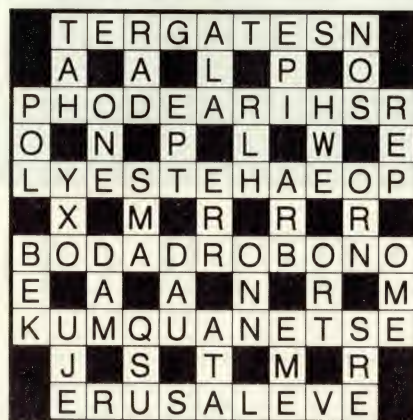
- CUTTING TRICK. Any ordinary table knife is used. The performer cuts into his nose, causing a thrill of horror. When removed, it leaves no scar or wound.
- NEVER GETS WET. A quantity of sand is thrown into a basin of water, yet the magician brings it out perfectly dry. May be used any number of times.
- BAFFLING PRODUCTION. Sure method of pulling specially made rubber eggs from the mouth. Up to six can be compressed in cheeks and assume their full shape when released.
- AERIAL SUSPENSION. A child or adult is balanced on the end of a common stick. The illusion's effect is also greatly enhanced when fancy costumes are used.

38 MOONLIGHTING

The night jobs (with their daytime counterparts in parentheses) are:

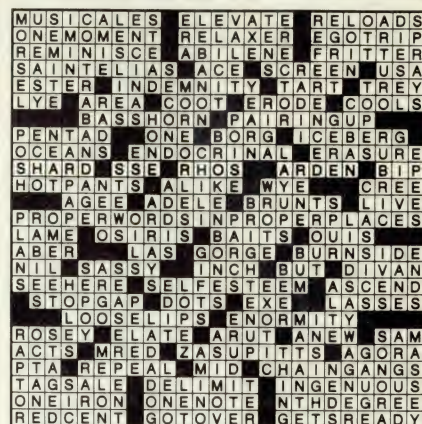
- REPORTER (REWRITER)
- BEAUTICIAN (MORTICIAN)
- CARPENTER (CARETAKER)
- BUTCHER (BUTLER)
- GUNSMITH (TINSMITH)
- DOGCATCHER (DISPATCHER)
- TRANSLATOR (LEGISLATOR)
- PHYSICIST (PHYSICIAN)
- FERRYMAN (DAIRYMAN)
- CARTOONIST (BASSOONIST)
- BOOKKEEPER (BOOKBINDER)
- DRESSMAKER (GLASSMAKER)
- ARCHITECT (ARCHIVIST)
- WEATHERMAN (FISHERMAN)
- ENGRAVER (ENGINEER)
- ACTRESS (ACTUARY)
- BRICKLAYER (BALLPLAYER)
- BLACKSMITH (LOCKSMITH)

23 PATHFINDER



- 1S RADON
- 2W GRETA
- 2E GALA
- 3S ADEPT
- 4N PETAL
- 5N ONSET
- 6S POLYESTER
- 7N HATE
- 8W SHIP
- 9N PEARL HARBOR
- 10N WHIRL
- 10S WEAR
- 11W HERR
- 12N PERSONS
- 13N XYLOPHONE
- 14N ROPER
- 15W BONNETS
- 16N ADOBE
- 17N ADAMS
- 18N MONROE
- 19E KUMQUAT
- 20N MADAM
- 21N JUKEBOX
- 21S JERUSALEM
- 22N SQUADRON
- 22S SURE
- 23N METRONOME
- 24S REVEL
- 25E SATAN
- 26E VERSE

37 A FINE MESH



24 AT THE SCENE OF THE ACCIDENT

- 6:45 PM (the theater ticket booth had just opened)
- Monday (the video store was open at 6:45 on all other days)
- 3
- No
- LKD 5
- Utah
- 1986 (oops!)
- 3
- "No Left Turn 4:00 to 8:00 PM"
- No
- DISNEY WORLD
- Leaking gas, while bystander was smoking a cigarette
- Rocky VII*
- A fall from his ladder
- E (next letter in "Special Matinee")
- "Hair Today" barbershop
- Second
- Man running with a gasoline can
- "Caution People Working"
- 6X
- The boy was riding a girl's bike (note the absence of a crossbar)
- 22-24. b, e, f
- Eyewitness "e" has grown a mustache

Scoring

Count 1 point for each answer (maximum score: 25).

Ratings

21 and up: Sherlock Holmes
16-20: Dr. Watson
10-15: Sharp observer
5-9: Forgetful witness
0-4: Amnesiac

44 MATHEMATICAL PUZZLES

- $L^{-1} = (1, 3, 2)$
 $R^{-1} = (2, 3, 4)$
- $L^{-1}R = (1, 2)(3, 4)$
- $LR^{-1}LR = (2, 3, 4)$. The R^{-1} move gives the same cycle.
- The four processes LRL , RLR , $L^{-1}R^{-1}L^{-1}$, and $R^{-1}L^{-1}R^{-1}$ all give $(1, 4)(2, 3)$.
- $(LRL^{-1}R^{-1})^3 = LRL^{-1}R^{-1}LRL^{-1}R^{-1}LRL^{-1}R^{-1} = (2, 12)(10, 20)$

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33 CRYPTIC CROSSWORD 1

ACROSS

- 1 Crimson (rims + con)
- 5 Founder (two meanings)
- 9 Supernova (pa nervous)
- 10 Sofas (soft - t + as)
- 11 Outbid (I doubt)
- 12 Seafarer (seer + a + far)
- 14 Saccharine (cane chairs)
- 16 Were (we're)
- 18 Myth (miss)
- 19 Centimeter (time + center)
- 22 Decorate (Dec. + orate)
- 23 Agenda (haAGEN-DAZs)
- 26 Chief (chef + I)
- 27 Onslaught (lush got an)
- 28 Limited (lied + M.I.T.)
- 29 Shelter (It. + sheer)

DOWN

- 1 Customs (cuss + tom)
- 2 Input (p + unit)
- 3 Straight (strait)
- 4 Nook (no OK)
- 5 Fraternity (try fine art)
- 6 Unsafe (rUNS A FEAture)
- 7 Deferment (de-ferment)
- 8 Reserve (re-serve)
- 13 Priesthood (so I drop the)
- 15 Catechism (schematic)
- 17 Emigrate (regime at)
- 18 Medical (claimed)
- 20 Reactor (reac + to + R.)
- 21 Profit (prophet)
- 24 Night (knight)
- 25 Uses (buses - b)

33 CRYPTIC CROSSWORD 2

ACROSS

- 1 Substantial (subs + tan + tail)
- 9 Overtones (overt + ones)
- 10 Wafer (Fe + war)
- 11 Citadel (dialect)
- 12 Achieve (have ice)
- 13 Redid (dried)
- 15 Adequate (equate + ad)
- 16 Blackout (bout + lack)
- 18 Debts (st. + bed)
- 22 Sucrose (courses)
- 23 Legally (leg + ally)
- 25 Conga (con + Ga.)
- 26 Evaporate (pave + orate)
- 27 Orchestrate (the art score, & lit.)

DOWN

- 1 Sated (dates)
- 2 Banal (ban + Al)
- 3 Testament (test + meant)
- 4 Newshound (new + H + sound)
- 5 Inflect (infect + L)
- 6 Larder (cellAR DERided)
- 7 Concur (con + cur)
- 8 Heated (at + heed)
- 14 Doctorate (art deco to)
- 15 Atonement (at one + men + t)
- 17 Laconic (la + conic)
- 19 Ballad (all + bad)
- 20 Styled (sty + led)
- 21 Psycho (tiPSY CHORus)
- 23 Llama (a + mall)
- 24 Glove (G + love)

FAKE AD

The Fake Advertisement announced in the Table of Contents was for the "NIM" buttons and appeared on page 47. Idea by Robert Leighton. Photograph by Nick Koudis.

6 LETTERS

Alphabet Crunch

Q	U	I	L	L
J	I	M	M	Y
Q	U	A	F	F
J	A	Z	Z	Y

V	E	R	B	S
B	O	T	C	H
P	R	O	P	S
V	E	T	C	H

K	I	N	K	Y
W	A	X	E	D
A	X	I	N	G
W	E	D	G	Y

WILD CARD ANSWERS

COLLECTOR'S ITEM

- 1-k, Russian
- 2-j, Portuguese
- 3-g, Japanese
- 4-f, Italian
- 5-m, Swedish
- 6-d, Hawaiian
- 7-l, Spanish
- 8-i, Polish
- 9-b, French
- 10-e, Hungarian
- 11-c, German
- 12-h, Norwegian
- 13-a, Dutch

CITY STATES

1. Indianapolis
2. Albany
3. Portland
4. Tuscaloosa
5. Hilo
6. Walla Walla
7. Grand Forks
8. Kodiak

CUBE STAKES

The number is 512: $5 + 1 + 2 = 8$, and $8 \times 8 \times 8 = 512$.

ROLE CALL

- | | |
|---------------------|---------------------------------|
| 1. James Bond | 10. Gidget |
| 2. Dracula | 11. D'Artagnan |
| 3. Miss Jane Marple | 12. Philip Marlowe |
| 4. Tarzan | 13. Superman |
| 5. Dorothy | 14. Zorro |
| 6. Charlie Chan | 15. Frankenstein's monster |
| 7. Sherlock Holmes | 16. Captain Bligh |
| 8. Robin Hood | 17. The Hunchback of Notre Dame |
| 9. Hercule Poirot | |

REST ORATION

The words are:

ARCHIVES	ISLANDER	REAPPEAR
BANJOIST	NOWHERE	RESTRAIN
CHAMPAGNES	PRONOUNCEMENT	VIEWED
HEATHEN	PROSECUTE	VINEGARISH

SMALL CHANGE

1. One ducat and one ecu.
 2. One ecu and one florin.
 3. One ecu. This is what she started with. Now you know why she would rather have won the second prize.
 4. Monday: one florin
Tuesday: one ducat
Wednesday: one ducat and one florin
Thursday: one ecu
Friday: one ecu and one florin
Saturday: one ducat and one ecu
Sunday: one ducat, one ecu, and one florin
- The amounts will be exactly the same in each subsequent week.

AT AUNT WILHELMINA'S

Aunt Hildegard likes words and phrases containing only those letters that, when written in capitals, are made entirely of straight lines.

PATRIOTIC SOUNDS

If you pronounce the first syllable of each name in order, you get the first line of "The Star-Spangled Banner": "Oh, say, can you see."

INFORMATION GAP

Poser was thinking of Bonnie. The questions were answered "no," "yes," and "yes," respectively.

If the answers to the first two questions were the same, Pointer would have known the identity immediately: two "yes" replies lead to Alma, and two "no" replies to Brad. Thus, the first two answers were "yes," then "no" or "no," then "yes." If the answer to the third question was "no," then Pointer, knowing that Adam and Bonnie are over 30, would have known by elimination that it was Abel or Bella, respectively. So the third answer must be "yes." Ponder, knowing the age of only one woman, can have deduced who it was with certainty only if the choices had been narrowed to two women. Thus, the second answer must be "yes," and the first "no." And since he had enough information to guess the identity, Ponder must have known Bella was not over 30.

BUILDING BRIDGES

The last letter of each word in the sentence is the first letter of the next word.

COVER-UP

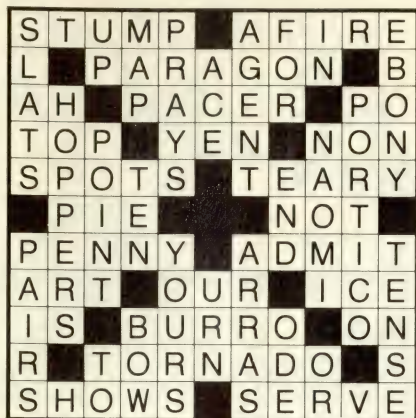
S	T	A	R	T
P	A	P	E	R
A	P	P	L	Y
D	E	L	I	S
E	R	E	C	T

ONE TO TEN

Replace O with 2, N with 0, E with 9, and T with 7; the sentence then reads: "To write the numbers 209 to 790 inclusive, you must use the digit 2 exactly 209 times."

GREASE-SPEAK

1. Ham and eggs
2. Western omelet
3. Buttered toast
4. Pancakes (two or three)
5. Clam chowder
6. Ham and potatoes with cabbage
7. Hot dog
8. Meat, potatoes, bread, and gravy
9. Apple pie
10. Coconut cream pie
11. Gelatin
12. Coffee
13. Coffee with cream and sugar
14. Orange juice
15. Glass of water



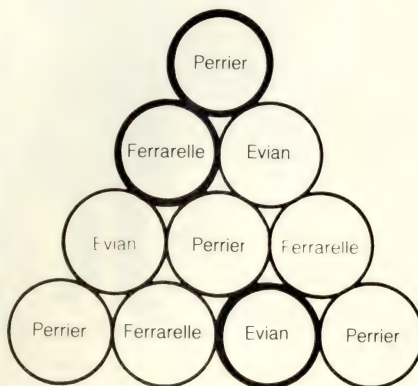
1. G
2. E
3. K
4. A
5. I
6. C
7. L
8. F
9. B
10. J
11. D
12. H

MAT		BODY		HILDA		DITCH
EXAM		ATOE		GOEES		OCUL
NIKE		MOWN		WENCH		TENOR
USES		BENT		ATSEA		IMAGE
	IAGO	WEAR		EMPALE		
PATBOONE		DEBS		PLANNED		
ALFIE		INTOTO		BYES		OME
POR		SYSTS		HAIL		TOMTOM
ANOMIE		MAZE		MEDALISTS		
LEMANS		CRAM		PSI		FROE
	TOTING	PI		SEWARD		
OHTO		OIE		GOAT		AMOEBA
PRESAGING		HIGH		DIRELY		
LATETE		TORT		AESIR		PAR
OVO		ACHY		EYELET		ERASE
PAPRIKA		GAFF		BUNDISTS		
	ILOILO	ATNO		IONA		
SOMAS		RATEL		ITAN		SWAT
WHELP		DROL		ETTE		EERY
AMAT		OVULE		COOT		SLIP
MYSON		SATAN		EMMY		LAY

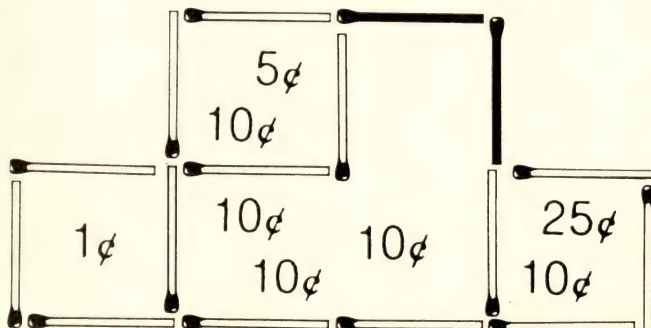
T	O	O	L	S		H	E	M	S		S	L	A	M
A	P	R	O	N		U	T	A	H			T	O	R
M	E	C	C	A		G	A	R	R			O	P	A
		C	H	A	R	L	O	T	T	E	S	W	E	B
		E	L	L	A			Y	W	C	A			
M	I	S	S		U	R	N			D	O	W	S	E
A	N	T			G	R	A	I	L		P	A	T	R
M	A	R	T	H	A	S	V	I	N	E		Y	A	R
B	L	A	R	E		P	E	R	E	S			G	E
A	L	L	O	T	S		N	E	W		R	E	D	S
			U	T	E	S		S	A	I	D			
		M	R	S	O	L	E	A	R	Y	S	C	O	W
T	O	T	E		D	I	N	O			S	H	O	E
O	V	E	R		O	N	E	S			A	I	R	E
M	E	S	S		M	E	W	S			D	E	S	K

1. True
2. True
3. False
4. B
5. False. (To be a foul tip, the tipped ball must be directly caught by the catcher.)
6. No. The starting pitcher must pitch to one complete batter.
7. True
8. False
9. (A) True (B) True (C) False (D) True
10. A
11. A
12. True
13. The runner from second base
14. He can be put out by being tagged
15. True; true
16. True
17. (A) False (B) False
18. Call a ball, warn the pitcher, and announce the reason to the crowd
19. A
20. A
21. False
22. Six to five
23. True
24. Balk
25. False. (The umpire should say nothing. If the other team appeals, the batter will be out.)
26. C
27. Ball one
28. True

The caps with the heavy outlines have been changed.



The two matchsticks in bold have been moved. The large square holds a total of 45¢.



Charles (known as "Biff") took all three rides; George ("Meat") rode the Zipper and the Galaxy; Henry ("Butch") rode only the Zipper.

Celeste Grier drove the mauve car; Lisa Adams, chartreuse; Sam Jones, turquoise; and Nathaniel Randall, magenta.

Ben (playing Ring 'Em), won three stuffed lions and two wooden nickels; Alf (playing Shoot the Hoop) won one of each kind of prize; Ed (playing Dart Throw) and Cara (playing Knock 'Em Down) won two Mae West figurines, one plastic bat, and two kazoos apiece; and Donna (playing Milk Toss) won one stuffed lion, two plastic bats, and two wooden nickels.

1. *Cagney & Lacey*
2. *Late Night With David Letterman*
3. *Miami Vice*
4. *Friday Night Videos*
5. *The New Newlywed Game*
6. *Twilight Zone*
7. *Murder, She Wrote*
8. *Magnum, P.I.*
9. *Nightline*
10. *Dynasty*
11. *Moonlighting*
12. *Love Boat*
13. *NBC Nightly News*
14. *The Jellsons*
15. *M*A*S*H*
16. *All in the Family*
17. *The Tonight Show*

	4
5	1

The two solutions are:

$$\begin{array}{r} 25 \\ + 46 \\ \hline 71 \end{array}$$

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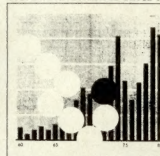
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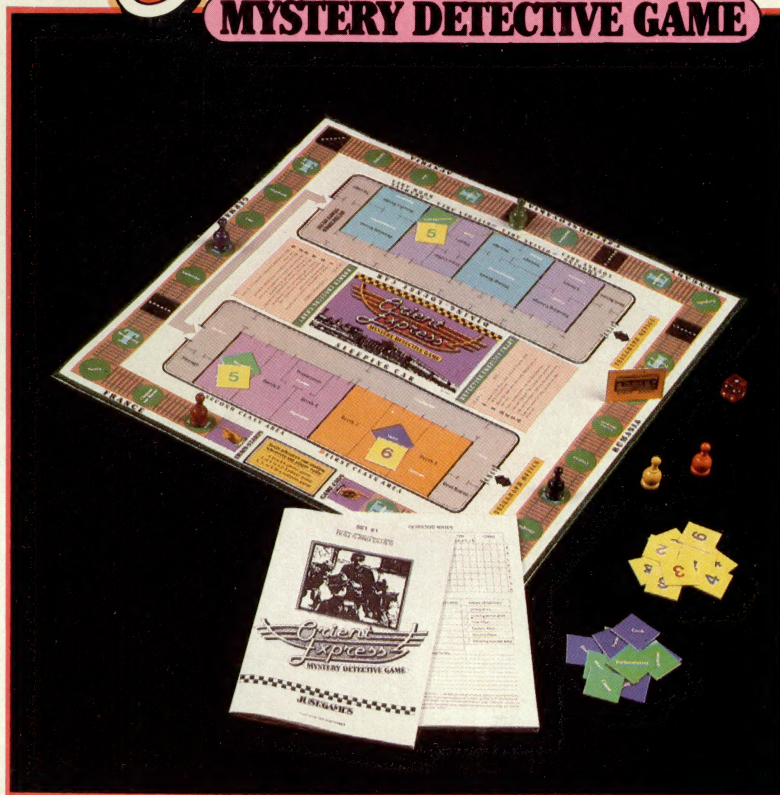
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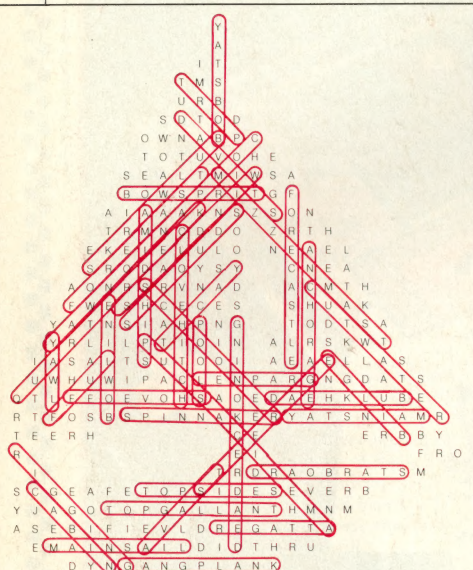
EUREKA

COVER

Clockwise from top left:

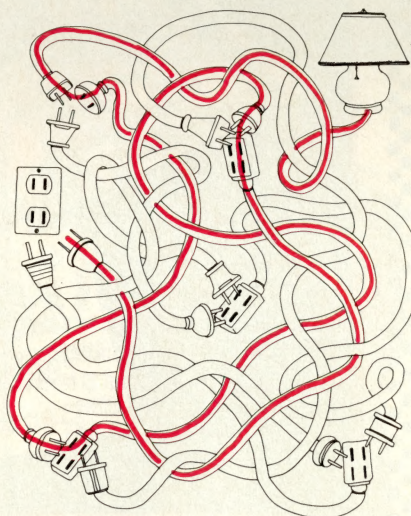
rose
mum
daffodil
tiger lily
carnation
violet
dandelion
daisy
poinsettia
iris

26 AHoy THERE!

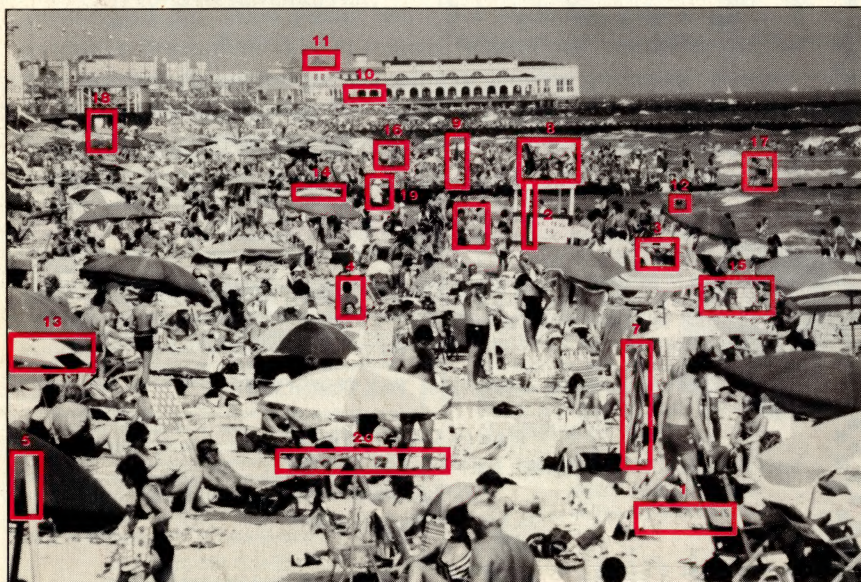


32 LET THERE BE LIGHT

The correct route is indicated in red.



40 SEE-SHORE JIGSAW



The scene in the photo is Ocean City, New Jersey. Photograph © Joseph Nettis/Photo Researchers.

CARDS & LETTERS is from Ed Christin, of Fairfield, OH. Dozens of readers sent us 5 & 10 or NICKEL & DIME (prices on candy wrappers), WEIGHTS & MEASURES (barbells and ruler markings), and LIFE & TIMES (Life magazine and Times Square). Ralph and Janet Saczawa, of Athens, AL, found HEARTS & FLOWERS (ace and bouquet). Deborah and Cheryl Wasserman, of Union, NJ, found STRAWBERRIES & CREAM (berries in jar and ice cream soda) and OFF & RUNNING (off button and running boy). Scott Daniels thought up STARS & STRIPES (difficulty rating at top of page and striped shirt), NAME & ADDRESS (brand name and "a dress"), WATCH & WAIT (wrist-watch and weight of shoe on scale), and the dubious MARY & JOSEPH (merry-go-round and Joe Friday). Interesting, though hardly a common phrase, is the fictional detective agency found by Robert C. Combow, of Seattle, WA: SPADE & ARCHER (ace and archer).

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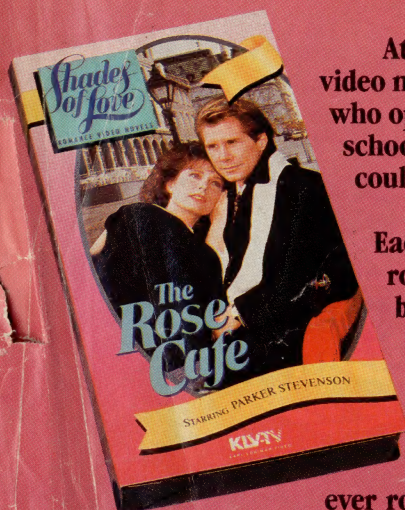
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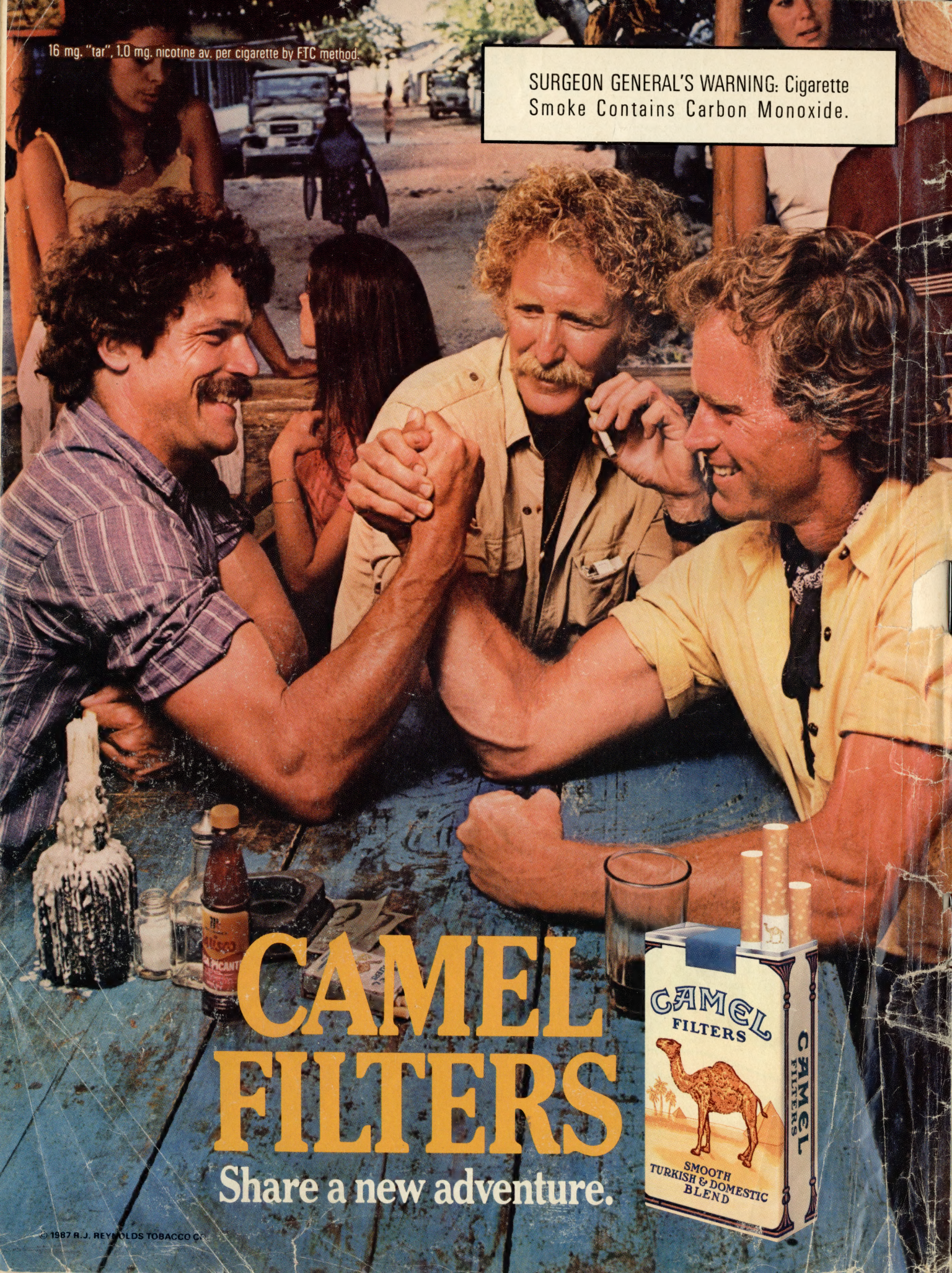
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